

## Schulablend (PC/ASA) WR 5 UV CA

Polycarbonate + ASA LyondellBasell Industries **Engineering Plastics** 

#### **Product Description**

PC-ASA blend with increased impact strength, heat resistance and weather resistance; permanent antistatic

General			
Material Status	<ul> <li>Commercial: Active</li> </ul>		
Availability	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Additive	<ul> <li>Antistatic</li> </ul>		
Features	<ul><li>Antistatic</li><li>Good Impact Resistance</li></ul>	<ul><li>Good Weather Resistance</li><li>High Heat Resistance</li></ul>	
Automotive Specifications	GM QK 002421 UZ Color: 71255 Black		
Processing Method	<ul> <li>Injection Molding</li> </ul>		

Density         1.16 g/cm³         1.16 g/cm³         ISO 1183/A           Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)         30 cm³/10min         30 cm³/10min         30 cm³/10min         ISO 1133           Mechanical         Nominal Value (English)         Nominal Value (SI)         Test Method           Tensile Modulus         261000 psi         1800 MPa         ISO 527-1/1A/1           Tensile Stress         7ield         6090 psi         42.0 MPa         ISO 527-2/1A/50           Break         5660 psi         39.0 MPa         ISO 527-2/1A/50           Tensile Strain         Yield         4.4 %         4.4 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         ISO 179/1eA         -22°F (-30°C)         6.7 ft·Ib/in²         14 kJ/m²         70 kJ/m²           Charpy Unnotched Impact Strength         ISO 179/1eU         -22°F (-30°C)         No Break         No Break         No Break           73°F (23°C)         No Break         No Break         No Break         No Break         No Break         No Brea	Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)         30 cm³/10min         30 cm³/10min         ISO 1133           Mechanical         Nominal Value (English)         Nominal Value (SI)         Test Method           Tensile Modulus         261000 psi         1800 MPa         ISO 527-1/1A/1           Tensile Stress         5660 psi         42.0 MPa         ISO 527-2/1A/50           Break         5660 psi         39.0 MPa         ISO 527-2/1A/50           Break         5660 psi         39.0 MPa         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Charpy Notched Impact Strength         ISO 179/1eA         -22°F (-30°C)         6.7 ft·lb/in²         14 kJ/m²         150 179/1eA           -22°F (-30°C)         33 ft·lb/in²         70 kJ/m²         ISO 179/1eU         -22°F (-30°C)         No Break	•	, ,	· ,	
Mechanical         Nominal Value (English)         Nominal Value (SI)         Test Method           Tensile Modulus         261000 psi         1800 MPa         ISO 527-1/1A/1           Tensile Stress         1900 psi         42.0 MPa         ISO 527-2/1A/50           Break         5660 psi         39.0 MPa         ISO 527-2/1A/50           Tensile Strain         78 %         180 527-2/1A/50           Yield         4.4 %         4.4 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         ISO 179/1eA         180 179/1eA           -22°F (-30°C)         6.7 ft·lb/in²         14 k.J/m²         180 179/1eA           -22°F (-30°C)         No Break         No Break         No Break           -22°F (-30°C)         No Break         No Break         No Break           -22°F (-30°C)         No Break         No Break         No Break           -3°F (23°C)         No Break         No Break         No Break           -3°F (23°C)         No Break         No Break         No Break           -3°F (23°C)         No Break         No Break				
Tensile Modulus         261000 psi         1800 MPa         ISO 527-1/1A/1           Tensile Stress         Yield         6090 psi         42.0 MPa         ISO 527-2/1A/50           Break         5660 psi         39.0 MPa         ISO 527-2/1A/5           Tensile Strain         Yield         4.4 %         4.4 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         -22°F (-30°C)         6.7 ft·lb/in²         14 kJ/m²         150 179/1eJ           -22°F (-30°C)         33 ft·lb/in²         70 kJ/m²         ISO 179/1eU           -22°F (-30°C)         No Break         ISO 179/1eU           -22°F (-30°C)         No Break	Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	30 cm³/10min	30 cm³/10min	ISO 1133
Tensile Stress         Yield         6090 psi         42.0 MPa         ISO 527-2/1A/50           Break         5660 psi         39.0 MPa         ISO 527-2/1A/5           Tensile Strain         Yield         4.4 %         4.4 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Break         Nominal Value (English)         Nominal Value (SI)         Test Method           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         56.7 ft·lb/in²         14 kJ/m²         70 kJ/m²           Charpy Unnotched Impact Strength         150 179/1eU         150 179/1eU           -22°F (-30°C)         No Break         No Break         No Break           73°F (23°C)         No Break         No Break         No Break           No Break         No Break         No Break         No Break           100°F         112°C         ISO 75-2/Bf           100°F         150°F<	Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Yield         6090 psi         42.0 MPa         ISO 527-2/1A/50           Break         5660 psi         39.0 MPa         ISO 527-2/1A/5           Tensile Strain         Yield         4.4 %         4.4 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         ISO 179/1eA           -22°F (-30°C)         6.7 ft·lb/in²         14 kJ/m²         150 179/1eU           -22°F (-30°C)         No Break         No Break         No Break           73°F (23°C)         No Break         No Break         No Break         No Break         No Break         No Break	Tensile Modulus	261000 psi	1800 MPa	ISO 527-1/1A/1
Break         5660 psi         39.0 MPa         ISO 527-2/1A/5           Tensile Strain         Yield         4.4 %         4.4 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/50           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         ISO 179/1eA         14 kJ/m²         150 179/1eA           -22°F (-30°C)         33 ft·lb/in²         70 kJ/m²         ISO 179/1eU           -22°F (-30°C)         No Break         No Break         No Break           73°F (23°C)         No Break         No Break         No Break           73°F (23°C)         No Break         No Break         No Break           Thermal         Nominal Value (English)         Nominal Value (SI)         Test Method           Deflection Temperature Under Load         66 psi (0.45 MPa), Unannealed         234 °F         112 °C         ISO 75-2/Bf           264 psi (1.8 MPa), Unannealed         190 °F         88.0 °C         ISO 75-2/Af	Tensile Stress			
Tensile Strain           Yield         4.4 %         4.4 %         ISO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/5           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         ISO 179/1eA         -22°F (-30°C)         6.7 ft·lb/in²         14 kJ/m²         14 kJ/m²         170 kJ/m²         170 kJ/m²         180 179/1eU         180 179/1eU	Yield	6090 psi	42.0 MPa	ISO 527-2/1A/50
Yield         4.4 %         4.4 %         1SO 527-2/1A/50           Break         78 %         78 %         ISO 527-2/1A/5           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         ISO 179/1eA         -22°F (-30°C)         6.7 ft·lb/in²         14 kJ/m²           -22°F (-30°C)         33 ft·lb/in²         70 kJ/m²         ISO 179/1eU           Charpy Unnotched Impact Strength         No Break         No Break           -22°F (-30°C)         No Break         No Break           73°F (23°C)         No Break         No Break           75°F (23°C)         No Break         No Break	Break	5660 psi	39.0 MPa	ISO 527-2/1A/5
Break         78 %         78 %         ISO 527-2/1A/5           Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength	Tensile Strain			
Impact         Nominal Value (English)         Nominal Value (SI)         Test Method           Charpy Notched Impact Strength         ISO 179/1eA           -22°F (-30°C)         6.7 ft·lb/in²         14 kJ/m²           73°F (23°C)         33 ft·lb/in²         70 kJ/m²           Charpy Unnotched Impact Strength         ISO 179/1eU           -22°F (-30°C)         No Break         No Break           73°F (23°C)         No Break         No Break           73°F (23°C)         No Break         No Break           Thermal         Nominal Value (English)         Nominal Value (SI)         Test Method           Deflection Temperature Under Load         66 psi (0.45 MPa), Unannealed         234 °F         112 °C         ISO 75-2/Bf           264 psi (1.8 MPa), Unannealed         190 °F         88.0 °C         ISO 75-2/Af	Yield	4.4 %	4.4 %	ISO 527-2/1A/50
Charpy Notched Impact Strength         ISO 179/1eA           -22°F (-30°C)         6.7 ft·lb/in²         14 kJ/m²           73°F (23°C)         33 ft·lb/in²         70 kJ/m²           Charpy Unnotched Impact Strength         ISO 179/1eU           -22°F (-30°C)         No Break         No Break           73°F (23°C)         No Break         No Break           Thermal         Nominal Value (English)         Nominal Value (SI)         Test Method           Deflection Temperature Under Load         66 psi (0.45 MPa), Unannealed         234 °F         112 °C         ISO 75-2/Bf           264 psi (1.8 MPa), Unannealed         190 °F         88.0 °C         ISO 75-2/Af	Break	78 %	78 %	ISO 527-2/1A/5
-22°F (-30°C) 6.7 ft·lb/in² 14 kJ/m² 73°F (23°C) 33 ft·lb/in² 70 kJ/m²  Charpy Unnotched Impact Strength ISO 179/1eU -22°F (-30°C) No Break No Break 73°F (23°C) No Break No Break Thermal Nominal Value (English) Nominal Value (SI) Test Method  Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed 234 °F 112 °C ISO 75-2/Bf 264 psi (1.8 MPa), Unannealed 190 °F 88.0 °C ISO 75-2/Af	Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
73°F (23°C)       33 ft·lb/in²       70 kJ/m²         Charpy Unnotched Impact Strength	Charpy Notched Impact Strength			ISO 179/1eA
Charpy Unnotched Impact Strength         ISO 179/1eU           -22°F (-30°C)         No Break         No Break           73°F (23°C)         No Break         No Break           Thermal         Nominal Value (English)         Nominal Value (SI)         Test Method           Deflection Temperature Under Load         66 psi (0.45 MPa), Unannealed         234 °F         112 °C         ISO 75-2/Bf           264 psi (1.8 MPa), Unannealed         190 °F         88.0 °C         ISO 75-2/Af	-22°F (-30°C)	6.7 ft·lb/in²	14 kJ/m²	
-22°F (-30°C) No Break	73°F (23°C)	33 ft·lb/in²	70 kJ/m²	
73°F (23°C)No BreakNo BreakThermalNominal Value (English)Nominal Value (SI)Test MethodDeflection Temperature Under Load66 psi (0.45 MPa), Unannealed234°F112°CISO 75-2/Bf264 psi (1.8 MPa), Unannealed190°F88.0°CISO 75-2/Af	Charpy Unnotched Impact Strength			ISO 179/1eU
ThermalNominal Value (English)Nominal Value (SI)Test MethodDeflection Temperature Under Load66 psi (0.45 MPa), Unannealed234 °F112 °CISO 75-2/Bf264 psi (1.8 MPa), Unannealed190 °F88.0 °CISO 75-2/Af	-22°F (-30°C)	No Break	No Break	
Deflection Temperature Under Load  66 psi (0.45 MPa), Unannealed  234 °F  112 °C  ISO 75-2/Bf  264 psi (1.8 MPa), Unannealed  190 °F  88.0 °C  ISO 75-2/Af	73°F (23°C)	No Break	No Break	
66 psi (0.45 MPa), Unannealed       234 °F       112 °C       ISO 75-2/Bf         264 psi (1.8 MPa), Unannealed       190 °F       88.0 °C       ISO 75-2/Af	Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
264 psi (1.8 MPa), Unannealed 190 °F 88.0 °C ISO 75-2/Af	Deflection Temperature Under Load			
	66 psi (0.45 MPa), Unannealed	234 °F	112 °C	ISO 75-2/Bf
Vicat Softening Temperature 232 °F 111 °C ISO 306/B50	264 psi (1.8 MPa), Unannealed	190 °F	88.0 °C	ISO 75-2/Af
	Vicat Softening Temperature	232 °F	111 °C	ISO 306/B50

#### **Additional Information**

The tradename "Schulablend" may be abbreviated "SBL" in documents or on labels.

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

### **Notes**

These are typical property values not to be construed as specification limits.

### **Processing Techniques**

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

#### **Product Storage and Handling**

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- · Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Page: 1 of 2 LyondellBasell

www.lyondellbasell.com Publish Date: 2023-07-06

#### **Technical Data Sheet**



# Schulablend (PC/ASA) WR 5 UV CA

Polycarbonate + ASA LyondellBasell Industries Engineering Plastics

### **Company Information**

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

© LyondellBasell Industries Holdings, B.V. 2023

#### **Disclaimer**

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

#### **Trademarks**

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.

Page: 2 of 2 LyondellBasell www.lyondellbasell.com Publish Date: 2023-07-06