

# Product Comparison

## Technical Data

### Product Description

Generic PC+ASA This data represents typical values that have been calculated from all products classified as: Generic PC+ASA

This information is provided for comparative purposes only.

General	SCANBLEND FS9 UV4	Generic PC+ASA
Manufacturer / Supplier	<ul style="list-style-type: none"> <li>Polykemi AB</li> </ul>	<ul style="list-style-type: none"> <li>Generic</li> </ul>
Generic Symbol	<ul style="list-style-type: none"> <li>PC+ASA</li> </ul>	<ul style="list-style-type: none"> <li>PC+ASA</li> </ul>
Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Asia Pacific</li> <li>Europe</li> <li>Latin America</li> <li>North America</li> </ul>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>Latin America</li> <li>North America</li> </ul>
Also Available In	--	<ul style="list-style-type: none"> <li>Asia Pacific</li> <li>Europe</li> <li>Latin America</li> <li>North America</li> </ul>

Physical	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Density / Specific Gravity	--	1.10 to 1.17	g/cm <sup>3</sup>	ASTM D792
	1.17	1.11 to 1.21	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)				
260°C/5.0 kg	--	14 to 30	g/10 min	ASTM D1238
260°C/5.0 kg	20	20 to 41	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	--	10 to 36	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage				
Flow	--	0.49 to 0.71	%	ASTM D955
--	--	0.49 to 0.61	%	ISO 294-4
Across Flow	0.50 to 0.70	--	%	Internal Method
Flow	0.50 to 0.70	--	%	Internal Method
Water Absorption				ISO 62
Saturation, 23°C	--	0.48 to 1.0	%	
Equilibrium, 23°C, 50% RH	--	0.20 to 0.30	%	

Mechanical	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Tensile Modulus				
--	--	1980 to 2680	MPa	ASTM D638
--	--	1800 to 2760	MPa	ISO 527-1
Tensile Strength				
Yield	--	53.7 to 65.0	MPa	ASTM D638
Yield	--	52.8 to 62.4	MPa	ISO 527-2
Break	--	44.0 to 66.0	MPa	ASTM D638
Break	50.0	39.0 to 56.7	MPa	ISO 527-2
Tensile Elongation				
Yield	--	4.0 to 5.1	%	ASTM D638
Yield	7.0	2.3 to 5.5	%	ISO 527-2
Break	--	24 to 110	%	ASTM D638
Break	--	4.5 to 100	%	ISO 527-2
Nominal Tensile Strain at Break	--	50 to 60	%	ISO 527-2



Mechanical	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Flexural Modulus				
--	--	2050 to 2770	MPa	ASTM D790
--	--	1940 to 2670	MPa	ISO 178
23°C	2500	--	MPa	ISO 178
Flexural Strength				
--	--	71.9 to 83.1	MPa	ASTM D790
--	90.0	72.8 to 97.5	MPa	ISO 178
Yield	--	81.8 to 95.7	MPa	ASTM D790
Impact	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
--	--	3.0 to 61	kJ/m <sup>2</sup>	
23°C	50	--	kJ/m <sup>2</sup>	
Notched Izod Impact				
--	--	29 to 610	J/m	ASTM D256
--	--	5.0 to 51	kJ/m <sup>2</sup>	ISO 180
Instrumented Dart Impact				
--	--	10.0 to 47.6	J	ASTM D3763
--	--	44.8 to 85.3	J	ISO 6603-2
Hardness	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Rockwell Hardness				
--	--	109 to 118		ASTM D785
--	--	109 to 122		ISO 2039-2
Thermal	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	--	99.2 to 116	°C	ASTM D648
0.45 MPa, Unannealed <sup>2</sup>	132	--	°C	ISO 75-2/B
0.45 MPa, Unannealed	--	90.0 to 133	°C	ISO 75-2/B
1.8 MPa, Unannealed	--	87.5 to 116	°C	ASTM D648
1.8 MPa, Unannealed <sup>2</sup>	122	--	°C	ISO 75-2/A
1.8 MPa, Unannealed	--	80.6 to 122	°C	ISO 75-2/A
Vicat Softening Temperature				
--	--	105 to 138	°C	ASTM D1525
--	134	--	°C	ISO 306/B50
--	--	101 to 140	°C	ISO 306
CLTE				
Flow	--	7.2E-5	cm/cm/°C	ASTM E831
Flow	--	6.7E-5 to 8.7E-5	cm/cm/°C	ISO 11359-2
Transverse	--	7.2E-5 to 8.5E-5	cm/cm/°C	ASTM E831
Transverse	--	6.3E-5 to 8.5E-5	cm/cm/°C	ISO 11359-2
Electrical	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Surface Resistivity	--	1.0E+11 to 1.0E+16	ohms	IEC 60093
Volume Resistivity	--	1.0E+13 to 1.0E+16	ohms·cm	IEC 60093
Relative Permittivity	--	2.95		IEC 60250
Dissipation Factor	--	2.5E-3 to 0.015		IEC 60250



Flammability	SCANBLEND FS9 UV4	Generic PC+ASA	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
--	--	650 to 960	°C	
2.0 mm	650	--	°C	

Injection	SCANBLEND FS9 UV4	Generic PC+ASA	Unit
Drying Temperature	100 to 110	79 to 120	°C
Drying Time	2.0 to 8.0	2.9 to 5.1	hr
Suggested Max Moisture	< 0.050	0.020 to 0.043	%
Suggested Shot Size	--	50 to 63	%
Hopper Temperature	--	70	°C
Rear Temperature	--	214 to 262	°C
Middle Temperature	--	230 to 271	°C
Front Temperature	--	235 to 261	°C
Nozzle Temperature	--	235 to 282	°C
Processing (Melt) Temp	240 to 280	249 to 281	°C
Mold Temperature	70 to 100	60 to 85	°C
Injection Pressure	--	103 to 116	MPa
Back Pressure	6.00 to 10.0	0.414 to 10.0	MPa
Screw Speed	--	50 to 55	rpm
Vent Depth	--	0.050 to 0.057	mm
Peripheral Screw Speed	21 to 33	--	m/min

**Injection Notes**

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**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 120°C/h

