



SCHULAMID[®] 66 MV 3

Polyamide 66
Engineering Plastics

Product Description

medium viscosity PA 66

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Viscosity		
Automotive Specifications	• FORD WSK-M4D647-A	• GM QK 002921 Color: Natural	
UL File Number	• 86615		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PA66<		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	435000 (3000)	218000 (1500)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	13100 (90.0)	10200 (70.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	15	%	ISO 527-2/1A/50

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	3.3 (7.0)	2.4 (5.0)	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	4.3 (9.0)	6.2 (13)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	45 (95)	No Break	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	71 (150)	No Break	ft·lb/in ² (kJ/m ²)	
Unnotched Izod Impact Strength (73°F (23°C))	No Break	--		ISO 180/1U

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	21800 (150)	--	psi (MPa)	ISO 2039-1



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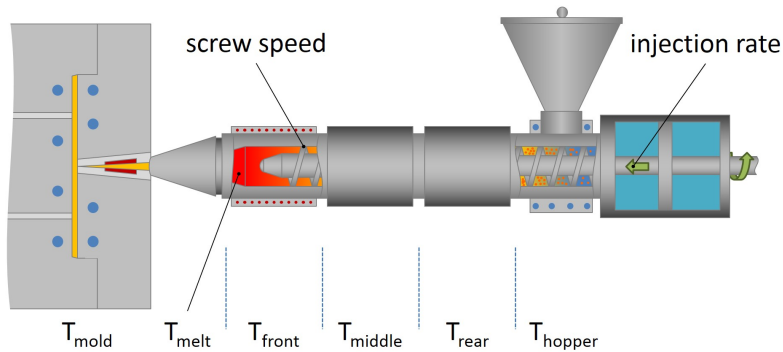
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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	437 (225)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	194 (90.0)	--	°F (°C)	ISO 75-2/Af
Ball Pressure Test (329°F (165°C))	Pass	--		IEC 60695-10-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	FMVSS 302
0.0787 in (2.00 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.030 in (0.75 mm)	V-2	--		
Glow Wire Flammability Index	1110 (600)	--	°F (°C)	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
0.08 in (2.0 mm)	1250 (675)	--	°F (°C)	



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Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C