

Technical Data Sheet

Schulamid 66 MV HI

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

Higher impact Polyamide 66 - standard grade

General

Features	- High Impact Resistance - Low Temperature Toughness	- Medium Viscosity - Oil Resistant
Processing Method	Injection Molding	
Resin ID (ISO 1043)	PA66	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% Rh	2.1	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	363000 (2500)	145000 (1000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	9430 (65.0)	5800 (40.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	25	%	ISO 527-2/1A/50

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	6.7 (14)	7.6 (16)	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	9.5 (20)	36 (75)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	No Break		
73°F (23°C)	No Break	No Break		

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	16000 (110)	8700 (60.0)	psi (MPa)	ISO 2039-1

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	338 (170)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	140 (60.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	419 (215)	--	°F (°C)	ISO 306/B50
--	446 (230)	--	°F (°C)	ISO 306/A50
Ball Pressure Test (140°F (60°C))	Pass	--		IEC 60695-10-2

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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·m	IEC 62631-3-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 In (2.00 Mm)	1.2 (30)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	1.2 (30)	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.030 In (0.75 Mm)	HB	--		
0.06 In (1.5 Mm)	HB	--		
0.12 In (3.0 Mm)	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 In (1.5 Mm)	1110 (600)	--	°F (°C)	
0.12 In (3.0 Mm)	1110 (600)	--	°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 %
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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