

Technical Data Sheet



Schulamid 66 MV 3 FR

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

Medium viscosity flame-retardant Polyamide 66 grade, V-0 by 0,75 mm; halogen free

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Antimony Free • Flame Retardant	• Halogen Free • Low Smoke Emission	
UL File Number	• E86615		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66 FR(30)		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	551000 (3800)	218000 (1500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	12300 (85.0)	6530 (45.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	6.0	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	1.4 (3.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	2.1 (4.5)	--	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	31 (65)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	40 (85)	--	ft·lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	468 (242)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	212 (100)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	441 (227)	--	°F (°C)	ISO 306/B50
--	473 (245)	--	°F (°C)	ISO 306/A50
Ball Pressure Test (257°F (125°C))	Pass	--		IEC 60695-10-2

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Thermal	Dry	Conditioned	Unit	Test Method
RTI Elec				UL 746B
0.030 in (0.75 mm)	266 (130)	--	°F (°C)	
0.06 in (1.5 mm)	266 (130)	--	°F (°C)	
0.12 in (3.0 mm)	266 (130)	--	°F (°C)	
RTI Imp				UL 746B
0.030 in (0.75 mm)	194 (90.0)	--	°F (°C)	
0.06 in (1.5 mm)	194 (90.0)	--	°F (°C)	
0.12 in (3.0 mm)	194 (90.0)	--	°F (°C)	
RTI Str				UL 746B
0.030 in (0.75 mm)	248 (120)	--	°F (°C)	
0.06 in (1.5 mm)	248 (120)	--	°F (°C)	
0.12 in (3.0 mm)	248 (120)	--	°F (°C)	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746A
0.030 in (0.75 mm)	PLC 0	--		
0.06 in (1.5 mm)	PLC 0	--		
0.12 in (3.0 mm)	PLC 0	--		
Hot-wire Ignition (HWI)				UL 746A
0.030 in (0.75 mm)	PLC 4	--		
0.06 in (1.5 mm)	PLC 4	--		
0.12 in (3.0 mm)	PLC 3	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.030 in (0.75 mm)	V-0	--		
0.06 in (1.5 mm)	V-0	--		
0.12 in (3.0 mm)	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.030 in (0.75 mm)	1760 (960)	--	°F (°C)	
0.06 in (1.5 mm)	1760 (960)	--	°F (°C)	
0.12 in (3.0 mm)	1760 (960)	--	°F (°C)	

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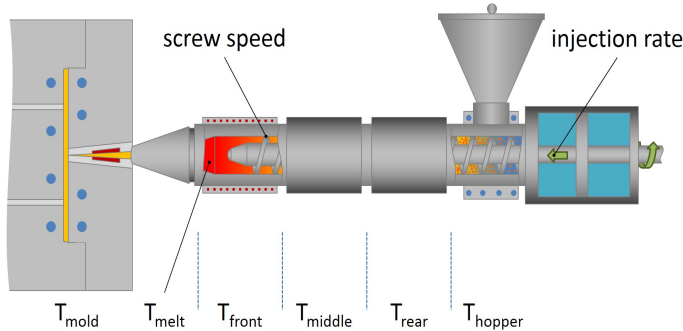
Flammability	Dry	Conditioned	Unit	Test Method
Glow Wire Ignition Temperature				IEC 60695-2-13
0.030 in (0.75 mm)	1380 (750)	--	°F (°C)	
0.06 in (1.5 mm)	1380 (750)	--	°F (°C)	
0.12 in (3.0 mm)	1380 (750)	--	°F (°C)	
Oxygen Index	35	--	%	ISO 4589-2

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Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	290 to 1160 psi	2.00 to 8.00 MPa
Screw Speed	591 in/min	15 m/min

Injection Notes

Mould surface contacting melt should be of non-corrosive steel (content of chrome > 12%)

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

Company Information

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

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