

Technical Data Sheet

**Schulamid 66 MV 3**

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

medium viscosity PA 66

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
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 527-1/1A/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 ft·lb/in ² (95 kJ/m ²)	No Break	(kJ/m ²)	
73°F (23°C)	71 ft·lb/in ² (150 kJ/m ²)	No Break	(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
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
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

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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 ¹				
0.0787 in (2.00 mm)	0.0	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	0.0	--	in/min (mm/min)	FMVSS 302
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 %
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

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Notes

¹ Self-Extinguishing

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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