

Technical Data Sheet

# Schulamid 66 MV 3

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

**Product Description**  
medium viscosity PA 66

General		
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 <sup>3</sup>	ISO 1183/A
Viscosity Number	145	--	cm <sup>3</sup> /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 <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	4.3 (9.0)	6.2 (13)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	45 ft·lb/in <sup>2</sup> (95 kJ/m <sup>2</sup> )	No Break	(kJ/m <sup>2</sup> )	
73°F (23°C)	71 ft·lb/in <sup>2</sup> (150 kJ/m <sup>2</sup> )	No Break	(kJ/m <sup>2</sup> )	
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 <sup>1</sup>				
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

**Notes**

<sup>1</sup> Self-Extinguishing

**Notes**

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