

Technical Data Sheet

# Schulamid 6 MV 14

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

Medium viscosity Polyamide 6

**General**

Features	<ul style="list-style-type: none"> <li>• Good Processability</li> <li>• Good Toughness</li> </ul>	<ul style="list-style-type: none"> <li>• Medium Viscosity</li> <li>• Oil Resistant</li> </ul>
Automotive Specifications	<ul style="list-style-type: none"> <li>• FORD WSK-M4D672-A</li> <li>• GM QK 002621 Color: 96.8127 LW Black-green</li> </ul>	<ul style="list-style-type: none"> <li>• GM QK 002621 Color: 968001 Black</li> <li>• IMDS ID 4786786 Color: 968001 Black</li> </ul>
UL File Number	<ul style="list-style-type: none"> <li>• E86615</li> </ul>	
Processing Method	<ul style="list-style-type: none"> <li>• Injection Molding</li> </ul>	
Resin ID (ISO 1043)	<ul style="list-style-type: none"> <li>• PA6</li> </ul>	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	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)	160000 (1100)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	11600 (80.0)	6530 (45.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	10	> 100	%	ISO 527-2/1A/50
Flexural Modulus	334000 (2300)	--	psi (MPa)	ISO 178
Flexural Stress	14500 (100)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	6.5	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.4 (5.0)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	3.3 (7.0)	24 (50)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		
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

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Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature				
--	374 (190)	--	°F (°C)	ISO 306/B50
--	410 (210)	--	°F (°C)	ISO 306/A50
RTI Elec				UL 746B
0.06 In (1.5 Mm)	149 (65.0)	--	°F (°C)	
0.12 In (3.0 Mm)	149 (65.0)	--	°F (°C)	
RTI Imp				UL 746B
0.06 In (1.5 Mm)	149 (65.0)	--	°F (°C)	
0.12 In (3.0 Mm)	149 (65.0)	--	°F (°C)	
RTI Str				UL 746B
0.06 In (1.5 Mm)	149 (65.0)	--	°F (°C)	
0.12 In (3.0 Mm)	149 (65.0)	--	°F (°C)	
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
0.06 In (1.5 Mm)	V-2	--		
0.12 In (3.0 Mm)	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 In (1.5 Mm)	1560 (850)	--	°F (°C)	
0.12 In (3.0 Mm)	1560 (850)	--	°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	482 to 518 °F	250 to 270 °C
Mold Temperature	140 to 194 °F	60 to 90 °C