

Technical Data Sheet

# Schulamid 6 MV MO1

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

Medium viscosity PA 6 with molybdenum sulfide for tribological applications

**General**

Additive	• Molybdenum Disulfide Lubricant
Features	• Medium Viscosity
Processing Method	• Injection Molding

**Physical**

	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm <sup>3</sup>	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% Rh	3.0	--	%	
Viscosity Number	146	--	cm <sup>3</sup> /g	ISO 307

**Mechanical**

	Dry	Conditioned	Unit	Test Method
Tensile Modulus	508000 (3500)	123000 (850)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress				ISO 527-2/1A/50
Yield	13100 (90.0)	5800 (40.0)	psi (MPa)	
Break	11000 (76.0)	8410 (58.0)	psi (MPa)	
Tensile Strain (Yield)	4.0	23	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	8.0	240	%	ISO 527-2
Flexural Modulus	450000 (3100)	--	psi (MPa)	ISO 178
Flexural Stress	16700 (115)	--	psi (MPa)	ISO 178

**Impact**

	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	1.8 (3.8)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	2.3 (4.9)	20 (42)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	28 (59)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	37 ft·lb/in <sup>2</sup> (78 kJ/m <sup>2</sup> )	No Break	(kJ/m <sup>2</sup> )	

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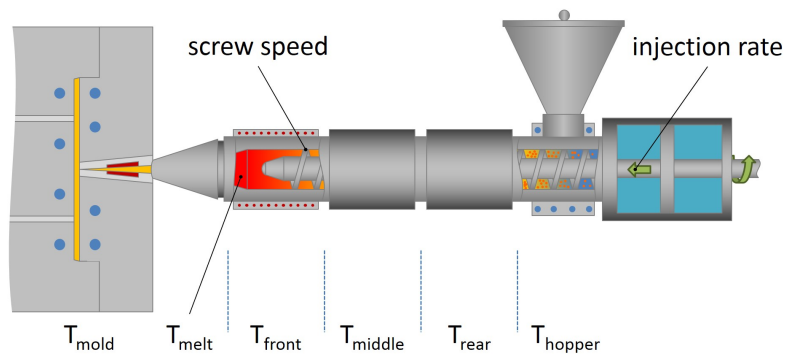
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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	358 (181)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	158 (70.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	394 (201)	--	°F (°C)	ISO 306/B50
--	421 (216)	--	°F (°C)	ISO 306/A50
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
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 In (2.00 Mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 (< 100)	--	in/min (mm/min)	FMVSS 302

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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

**Notes**

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