

Technical Data Sheet

Schulamid 6 MV HI K1893

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
super high impact modified polyamide 6 compound

General		
Processing Method	• Extrusion	• Injection Molding
Resin ID (ISO 1043)	• PA6-I	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183/A

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	203000 (1400)	58000 (400)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	5080 (35.0)	3190 (22.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	5.5	35	%	ISO 527-2/1A/50

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	14 (30)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	48 ft-lb/in ² (100 kJ/m ²)	No Break	(kJ/m ²)	
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	158 (70.0)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	104 (40.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	226 (108)	--	°F (°C)	ISO 306/B50
--	410 (210)	--	°F (°C)	ISO 306/A120

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

Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Density (527°F (275°C))	0.890	--		ISO 1133

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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.