

Technical Data Sheet



Schulamid 6 MV HI K1893

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

super high impact modified polyamide 6 compound

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
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.

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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