

Technical Data Sheet



Schulamid 6 MV HI

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

Higher impact Polyamide 6 - standard grade

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Grease Resistant • High Impact Resistance	• Low Temperature Toughness • Medium Viscosity	• Oil Resistant
Automotive Specifications	• GM QK 002621 P Color: Natural • IMDS ID 4221280 Color: Natural		
UL File Number	• E86615		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-I		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	2.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	319000 (2200)	116000 (800)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	8700 (60.0)	5080 (35.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	4.2	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 50	> 100	%	ISO 527-2/1A/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.8 (10)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	7.6 (16)	29 (60)	ft-lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	16000 (110)	8700 (60.0)	psi (MPa)	ISO 2039-1
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	284 (140)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	140 (60.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	347 (175)	--	°F (°C)	ISO 306/B50
--	419 (215)	--	°F (°C)	ISO 306/A50

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Thermal	Dry	Conditioned	Unit	Test Method
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				
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
Flammability Classification				IEC 60695-11-10, -20
0.030 in (0.75 mm)	HB	--		
0.06 in (1.5 mm)	HB	--		
0.12 in (3.0 mm)	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 in (1.5 mm)	1200 (650)	--	°F (°C)	
0.12 in (3.0 mm)	1200 (650)	--	°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

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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