Technical Data Sheet

LyondellBasell

Schulamid 66 MK 30 HI H K1357 GRAU 967370

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description			
30% mineral filled PA 66, impact modified, heat stabilized			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Mineral, 40% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Heat Stabilized	• Impact Modified	
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PA66-M<		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	2.1	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	464000 (3200)	145000 (1000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	8700 (60.0)	5510 (38.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	12	> 50	%	ISO 527-2/1A/5
Flexural Modulus	464000 (3200)	--	psi (MPa)	ISO 178
Flexural Stress	13300 (92.0)	--	psi (MPa)	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.9 (6.0)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	4.8 (10)	5.7 (12)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	43 (90)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	239 (115)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	144 (62.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	392 (200)	--	°F (°C)	ISO 306/B50
--	464 (240)	--	°F (°C)	ISO 306/A50

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Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index				IEC 60112
0.118 in (3.00 mm)	450	--	V	
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
0.06 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)	1290 (700)	--	°F (°C)	
0.12 in (3.0 mm)	1340 (725)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 in (1.5 mm)	1340 (725)	--	°F (°C)	
0.12 in (3.0 mm)	1340 (725)	--	°F (°C)	

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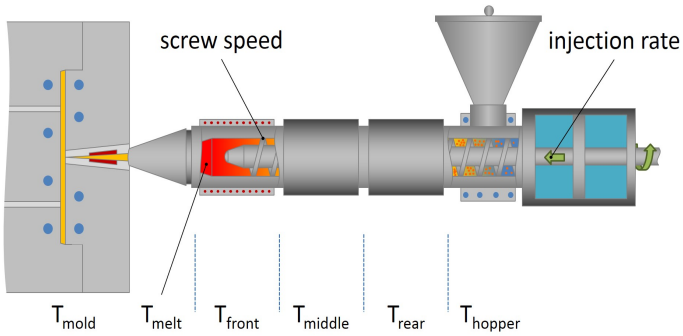

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

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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