Technical Data Sheet

Schulamid 66 GF 30 HE LW

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description
30% glass fiber reinforced and heat stabilized polyamide 66-compound, electrical neutral, transparent for laser light of laser welding processes

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183/A
Viscosity Number	160	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.42E+6 (9800)	841000 (5800)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	26100 (180)	13900 (96.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	8.0	%	ISO 527-2/1A/5
Flexural Modulus [1]	1.19E+6 (8200)	--	psi (MPa)	ISO 178
Flexural Stress [1]	39200 (270)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	4.5	--	%	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	4.3 (9.0)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	5.7 (12)	7.1 (15)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	33 (70)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	40 (85)	37 (78)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	> 482 (> 250)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	464 (240)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	> 482 (> 250)	--	°F (°C)	ISO 306/B50 ISO 306/A50

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 In (2.00 Mm)	1.2 (30)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	1.2 (30)	--	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)	1200 (650)	--	°F (°C)	
0.12 In (3.0 Mm)	1250 (675)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 In (1.5 Mm)	1250 (675)	--	°F (°C)	
0.12 In (3.0 Mm)	1290 (700)	--	°F (°C)	

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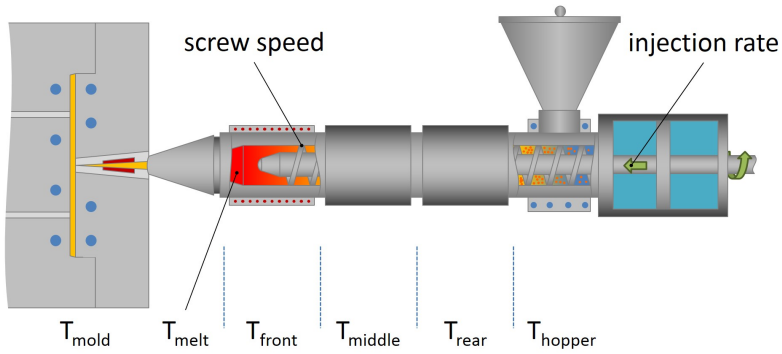

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

[1] 0.079 in/min (2.0 mm/min)

Notes

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