

Schulamid 66 GB 30 H

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass bead reinforced, heat stabilized Polyamide 66

General

Filler / Reinforcement	• Glass Bead, 30% Filler by Weight
Features	• Good Flow • Good Surface Finish • Low Warpage • Oil Resistant
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183/A
Viscosity Number	140	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	653000 (4500)	363000 (2500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	12300 (85.0)	9430 (65.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	7.5	11	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 (4.0)	--	ft·lb/in ² (kJ/m ²)	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	14 (30)	--	ft·lb/in ² (kJ/m ²)	ISO 179/1eU
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	26800 (185)	18100 (125)	psi (MPa)	ISO 2039-1
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	419 (215)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	167 (75.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	446 (230)	--	°F (°C)	ISO 306/B50
--	455 (235)	--	°F (°C)	ISO 306/A50
Ball Pressure Test (257°F (125°C))	Pass	--		IEC 60695-10-2
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	450	--	V	IEC 60112





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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)	--	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	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.

