

Technical Data Sheet

Schulamid 66 GBF 3020

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber and glass bead reinforced Polyamide 66 with high tensile strength and dimensional stability

General

Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight
Features	• Balanced Stiffness/Toughness • Low Warpage • Good Flow • Oil Resistant
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% Rh	2.0	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.10E+6 (7600)	638000 (4400)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	18900 (130)	11600 (80.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	10	%	ISO 527-2/1A/5
Flexural Modulus ¹	870000 (6000)	--	psi (MPa)	ISO 178
Flexural Stress ¹	27600 (190)	--	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)	2.9 (6.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	6.7 (14)	8.6 (18)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	17 (35)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	19 (40)	29 (60)	ft·lb/in ² (kJ/m ²)	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	31900 (220)	20300 (140)	psi (MPa)	ISO 2039-1

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	473 (245)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	473 (245)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	455 (235)	--	°F (°C)	ISO 306/B50
--	464 (240)	--	°F (°C)	ISO 306/A50
Ball Pressure Test (284°F (140°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
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				
0.06 In (1.5 Mm)	HB	--		IEC 60695-11-10, -20
0.12 In (3.0 Mm)	HB	--		
Glow Wire Flammability Index				
0.06 In (1.5 Mm)	1200 (650)	--	°F (°C)	
0.12 In (3.0 Mm)	1200 (650)	--	°F (°C)	IEC 60695-2-12

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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.