

Technical Data Sheet

# Schulamid 66 GBF 3020 K1750

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

30% glass fibre and glass bead reinforced PA 66, high strength, low warpage

**General**

Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight
Features	• High Strength • Low Warpage
Automotive Specifications	• GM QK 003121 Color: Natural • IMDS ID 4220842 Color: Natural
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66-(GB+GF)<

**Physical**

	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm <sup>3</sup>	ISO 1183/A
Viscosity Number	145	--	cm <sup>3</sup> /g	ISO 307

**Mechanical**

	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.16E+6 (8000)	798000 (5500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	23200 (160)	17400 (120)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	4.5	%	ISO 527-2/1A/5

**Impact**

	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	2.9 (6.0)	4.8 (10)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°f (23°c)	3.8 (8.0)	6.2 (13)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	17 (35)	21 (45)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°f (23°c)	24 (50)	24 (50)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Notched Izod Impact Strength				ISO 180/1A
-40°f (-40°c)	3.3 (7.0)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°f (23°c)	1.9 (4.0)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Unnotched Izod Impact Strength				ISO 180/1U
-40°f (-40°c)	19 (40)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°f (23°c)	21 (45)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	

**Hardness**

	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	31900 (220)	--	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
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
Glow Wire Flammability Index	1110 (600)	--	°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**

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