

SCHULAMID® 66 GBF 3020

Polyamide 66
A. Schulman Europe

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

General Information				
Filler / Reinforcement		Glass Bead\Glass Fiber,30% Filler by Weight		
Features		Balanced Stiffness/Toughness		
		Good Flow		
		Low Warpage		
		Oil Resistant		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183/A
Water Absorption (Saturation, 23°C)	2.0	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	220	140	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7600	4400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	130	80.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	10	%	ISO 527-2/1A/5
Flexural Modulus ¹	6000	--	MPa	ISO 178
Flexural Stress ²	190	--	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
-30°C	6.0	--	kJ/m ²	
23°C	14	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	--	kJ/m ²	
23°C	40	60	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	245	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	240	--	°C	ISO 306/A50
--	235	--	°C	ISO 306/B50
Ball Pressure Test (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·cm	IEC 60093
Comparative Tracking Index	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		
Glow Wire Flammability Index				
				IEC 60695-2-12
1.50 mm	--	650	°C	
3.00 mm	--	650	°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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