

SCHULAMID® 66 GBF 3020 FR 4

Polyamide 66

A. Schulman Europe

Message:

30% glass fibre and glass beads reinforced flame-retardant Polyamide 66 grade with low warpage high mechanical stability and high dimension stability, without PBDE

General Information				
UL YellowCard		E86615-252177		
Filler / Reinforcement		Glass Bead\Glass Fiber,30% Filler by Weight		
Features		Flame Retardant		
		Low Warpage		
UL File Number		E86615		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8700	5000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	140	92.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	4.5	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.5	--	kJ/m ²	
23°C	5.5	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	38	--	kJ/m ²	
23°C	42	51	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	> 250	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	224	--	°C	ISO 75-2/ Af
Ball Pressure Test (200°C)	Pass	--		IEC 60695-10-2
RTI Elec				UL 746
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
RTI Imp				UL 746
1.50 mm	65.0	--	°C	

3.00 mm	65.0	--	°C	
RTI Str				UL 746
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 7.8E+12	--	ohms	IEC 60093
Volume Resistivity	> 9.9E+13	--	ohms·cm	IEC 60093
Electric Strength	22	--	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.81	--		
1 MHz	3.85	--		
Dissipation Factor				IEC 60250
100 Hz	0.049	--		
1 MHz	0.022	--		
Comparative Tracking Index (Solution A)	175	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm, Self-Extinguishing)	0.0	--	mm/min	ISO 3795
Flame Rating				UL 94, IEC 60695-11-10, -20
1.50 mm	V-0	--		
3.00 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	750	--	°C	
3.00 mm	750	--	°C	
Oxygen Index	38	--	%	ISO 4589-2

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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