

SCHULAMID® 6 GBF 3015 FR 4

Polyamide 6
A. Schulman Europe

Message:

30% glass fiber and glass beads reinforced flame-retardant Polyamide 6 grade with low warpage, high mechanical stability and high dimensional stability; without PBDE

General Information				
UL YellowCard		E86615-100091446	E188844-102210952	
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	1.60	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8800	5000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	130	80.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	6.0	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	6.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	--	kJ/m ²	
23°C	50	53	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	210	--	°C	ISO 306/A50
--	205	--	°C	ISO 306/B50
Ball Pressure Test (200°C)	Pass	--		IEC 60695-10-2
RTI Elec				UL 746

1.00 mm	65.0	--	°C	
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
RTI Imp				UL 746
1.00 mm	65.0	--	°C	
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
RTI Str				UL 746
1.00 mm	65.0	--	°C	
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	200	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				ISO 3795
1.00 mm, Self-Extinguishing	0.0	--	mm/min	
1.50 mm, Self-Extinguishing	0.0	--	mm/min	
3.00 mm, Self-Extinguishing	0.0	--	mm/min	
Flame Rating				UL 94, IEC 60695-11-10, -20
1.00 mm	V-0	--		
	V-0			
1.50 mm	5VA	--		
	V-0			
3.00 mm	5VA	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	800	--	°C	
1.50 mm	800	--	°C	
3.00 mm	800	--	°C	
Oxygen Index	35	--	%	ISO 4589-2

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