

SCHULAMID® 6 GBF 3010 H

Polyamide 6
A. Schulman Europe

Message:
30% glass fiber and glass bead reinforced Polyamide 6 with higher stiffness and dimension stability

General Information				
Filler / Reinforcement		Glass Bead\Glass Fiber,30% Filler by Weight		
Features		Good Flow		
		Good Heat Aging Resistance		
		Good Surface Finish		
		Low Warpage		
		Oil Resistant		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-(GB20+GF10)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183/A
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	175	115	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	3000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	110	55.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	12	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.5	--	kJ/m ²	
23°C	4.0	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	--	kJ/m ²	
23°C	35	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/Af

Vicat Softening Temperature				
--	218	--	°C	ISO 306/A50
--	210	--	°C	ISO 306/B50
Ball Pressure Test (115°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	--		

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