Technical Data Sheet

SCHULAMID® 6 GBF 3010 H

Polyamide 6
Engineering Plastics

Product Description
30% glass fiber and glass bead reinforced Polyamide 6 with higher stiffness and dimension stability

General			
Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight		
Features	• Good Flow • Good Surface Finish	• Heat Aging Resistant • 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/cm³	ISO 1183/A
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	1.7	--	%	
Viscosity Number	145	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	870000 (6000)	435000 (3000)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	16000 (110)	7980 (55.0)	psi (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
-22°F (-30°C)	1.7 (3.5)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	1.9 (4.0)	5.7 (12)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	14 (30)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	17 (35)	43 (90)	ft·lb/in² (kJ/m²)	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	25400 (175)	16700 (115)	psi (MPa)	ISO 2039-1

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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	419 (215)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	374 (190)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	424 (218)	--	°F (°C)	ISO 306/A50
--	410 (210)	--	°F (°C)	ISO 306/B50
Ball Pressure Test (239°F (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·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
Flammability Classification				IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	--		
0.12 in (3.0 mm)	HB	--		

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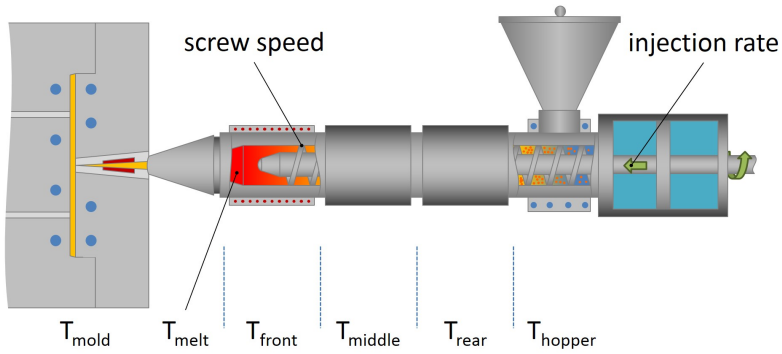

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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