Technical Data Sheet

Schulamid 6 GB 50 BLUE 96.5190

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
50% glass bead reinforced Polyamide 6 with higher stiffness and dimension stability

General		
Filler / Reinforcement	• Glass Bead, 50% Filler by Weight	
Features	• Good Dimensional Stability • Good Surface Finish	• Low Warpage • Oil Resistant
UL File Number	• E86615	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA6-GB50	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.54	--	g/cm³	ISO 1183/A
Viscosity Number	130	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	870000 (6000)	--	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	11200 (77.0)	--	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	--	%	ISO 527-2/1A/5
Flexural Modulus	827000 (5700)	--	psi (MPa)	ISO 178
Flexural Stress	19600 (135)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	3.5	--	%	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	1.4 (3.0)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	2.4 (5.0)	--	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	15 (32)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	19 (40)	--	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	365 (185)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	167 (75.0)	--	°F (°C)	ISO 75-2/Af

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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	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 In (1.5 Mm)	1200 (650)	--	°F (°C)	
0.12 In (3.0 Mm)	1200 (650)	--	°F (°C)	

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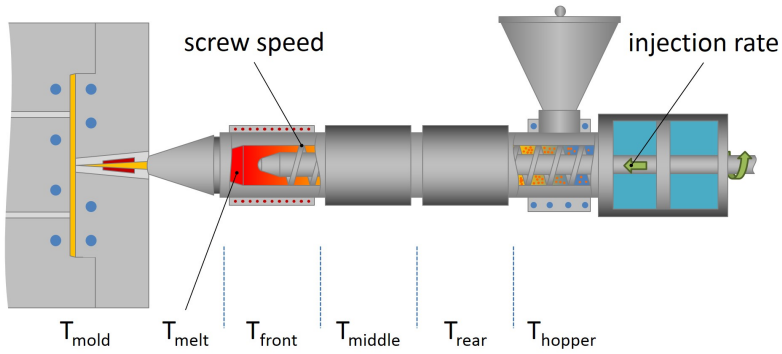

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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