Technical Data Sheet

Schulamid 6 GB 30

Polyamide 6
LyondellBasell Industries
Engineering Plastics

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

General		
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight	
Features	• Good Dimensional Stability • Good Surface Finish	• Low Warpage • Oil Resistant
Automotive Specifications	• GM QK 002811 Color: 968001 LS Black	• IMDS ID 4783937 Color: 968001 LS Black
UL File Number	• E86615	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA6-GB30	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	1.9	--	%	
Viscosity Number	145	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	580000 (4000)	174000 (1200)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	10200 (70.0)	4930 (34.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	10	50	%	ISO 527-2/1A/5
Flexural Modulus	435000 (3000)	--	psi (MPa)	ISO 178
Flexural Stress	14500 (100)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	6.5	--	%	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)	1.9 (4.0)	6.7 (14)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	13 (28)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	17 ft·lb/in² (35 kJ/m²)	No Break	(kJ/m²)	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	23900 (165)	15200 (105)	psi (MPa)	ISO 2039-1

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	356 (180)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	154 (68.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	392 (200)	--	°F (°C)	ISO 306/B50
--	419 (215)	--	°F (°C)	ISO 306/A50
Ball Pressure Test (221°f (105°c))	Pass	--		IEC 60695-10-2
RTI Elec				UL 746B
0.06 In (1.5 Mm)	149 (65.0)	--	°F (°C)	
0.12 In (3.0 Mm)	149 (65.0)	--	°F (°C)	
RTI Imp				UL 746B
0.06 In (1.5 Mm)	149 (65.0)	--	°F (°C)	
0.12 In (3.0 Mm)	149 (65.0)	--	°F (°C)	
RTI Str				UL 746B
0.06 In (1.5 Mm)	149 (65.0)	--	°F (°C)	
0.12 In (3.0 Mm)	149 (65.0)	--	°F (°C)	
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)	3.1 (80)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	3.1 (80)	--	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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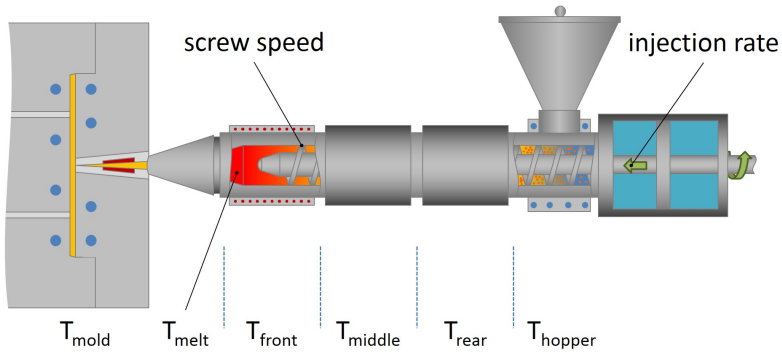

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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