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Technical Data Sheet

Schulamid 6 GF 15 H

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description	
15% glass fiber reinforced, heat stabilized Polyamide 6	

General		
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Heat Stabilized	
Automotive Specifications	• FORD WSK-M4D665-A	• GM GMW3029P-PA6-GF15H Color: 96.8001 Black
Processing Method	• Injection Molding	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	841000 (5800)	435000 (3000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	17400 (120)	10200 (70.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	15	%	ISO 527-2/1A/5
Flexural Modulus	624000 (4300)	--	psi (MPa)	ISO 178
Flexural Stress	24700 (170)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	610	--	%	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	2.4 (5.0)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	3.3 (7.0)	7.1 (15)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	19 (40)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	21 ft·lb/in² (45 kJ/m²)	No Break	(kJ/m²)	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	25200 (174)	--	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	410 (210)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	392 (200)	--	°F (°C)	ISO 75-2/Af

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Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature				
--	410 (210)	--	°F (°C)	ISO 306/B50
--	419 (215)	--	°F (°C)	ISO 306/A120
RTI Elec				UL 746B
0.030 In (0.75 Mm)	266 (130)	--	°F (°C)	
0.06 In (1.5 Mm)	266 (130)	--	°F (°C)	
0.12 In (3.0 Mm)	266 (130)	--	°F (°C)	
RTI Imp				UL 746B
0.030 In (0.75 Mm)	257 (125)	--	°F (°C)	
0.06 In (1.5 Mm)	257 (125)	--	°F (°C)	
0.12 In (3.0 Mm)	257 (125)	--	°F (°C)	
RTI Str				UL 746B
0.030 In (0.75 Mm)	266 (130)	--	°F (°C)	
0.06 In (1.5 Mm)	266 (130)	--	°F (°C)	
0.12 In (3.0 Mm)	266 (130)	--	°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
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate				
0.0787 In (2.00 Mm)	1.7 (43)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	1.7 (43)	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.030 In (0.75 Mm)	HB	--		
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)	1250 (675)	--	°F (°C)	
0.12 In (3.0 Mm)	1250 (675)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 In (1.5 Mm)	1290 (700)	--	°F (°C)	
0.12 In (3.0 Mm)	1290 (700)	--	°F (°C)	

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Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

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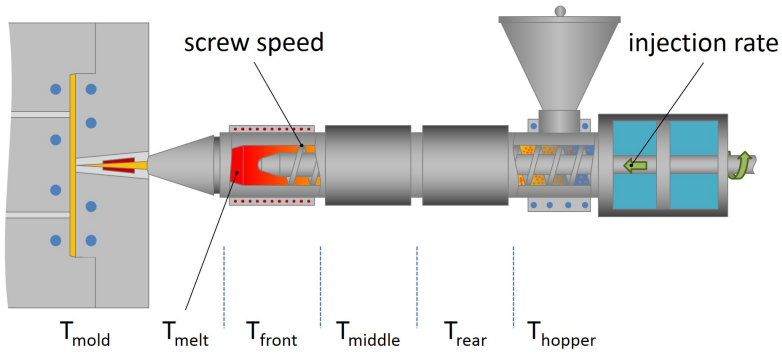

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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