

Technical Data Sheet



Schulamid 6 GBF 3015 FR 2

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fibre and glass bead reinforced flame retardant PA6 compound, increased strength and dimensional stability; halogenfree; PBDE free, with low warpage

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight		
Features	• Flame Retardant • Good Dimensional Stability	• Good Strength • Halogen Free	• Low Warpage
Automotive Specifications	• FORD WSK-M4D665-A		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6 (GF+GB)30 FR(40)		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.20E+6 (8300)	638000 (4400)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	16000 (110)	8990 (62.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.7	5.5	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.6 (5.5)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	3.3 (7.0)	5.9 (13)	ft-lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	19 (40)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	22 (46)	24 (50)	ft-lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	417 (214)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	388 (198)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	406 (208)	--	°F (°C)	ISO 306/B50
--	419 (215)	--	°F (°C)	ISO 306/A120
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	425	--	V	IEC 60112

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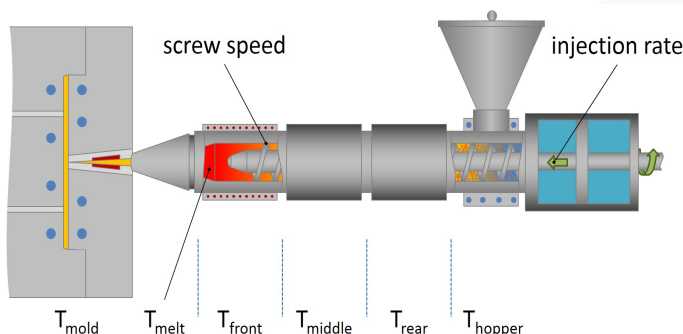
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.030 in (0.75 mm)	V-0	--		
0.06 in (1.5 mm)	V-0	--		
0.12 in (3.0 mm)	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.030 in (0.75 mm)	1760 (960)	--	°F (°C)	
0.06 in (1.5 mm)	1760 (960)	--	°F (°C)	
0.12 in (3.0 mm)	1760 (960)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.030 in (0.75 mm)	1380 (750)	--	°F (°C)	
0.06 in (1.5 mm)	1380 (750)	--	°F (°C)	
0.12 in (3.0 mm)	1380 (750)	--	°F (°C)	
Oxygen Index	35	--	%	ISO 4589-2

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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	464 to 518 °F	240 to 270 °C
Mold Temperature	140 to 212 °F	60 to 100 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	< 591 in/min	< 15 m/min
Screw Speed	< 591 in/min	< 15 m/min

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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