

Technical Data Sheet



Schulamid 6 GBF 3015 FR 4

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber and glass beads reinforced flame-retardant Polyamide 6 grade with low warpage, high mechanical stability and high dimensional stability; without PBDE

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	• Low Warpage	
UL File Number	• E86615		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6 (GF+GB)30 FR(17)		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.60	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.28E+6 (8800)	725000 (5000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	18900 (130)	11600 (80.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	6.0	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	1.9 (4.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	2.9 (6.0)	3.3 (7.0)	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)	24 (50)	25 (53)	ft·lb/in ² (kJ/m ²)	
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	374 (190)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	401 (205)	--	°F (°C)	ISO 306/B50
--	410 (210)	--	°F (°C)	ISO 306/A50
Ball Pressure Test (392°F (200°C))	Pass	--		IEC 60695-10-2

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Thermal	Dry	Conditioned	Unit	Test Method
RTI Elec				UL 746B
0.04 in (1.0 mm)	149 (65.0)	--	°F (°C)	
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
0.04 in (1.0 mm)	149 (65.0)	--	°F (°C)	
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
0.04 in (1.0 mm)	149 (65.0)	--	°F (°C)	
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
Comparative Tracking Index	200	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				ISO 3795
0.0394 in (1.00 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	
0.0591 in (1.50 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	
0.118 in (3.00 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	
Flame Rating				UL 94 IEC 60695-11-10, -20
0.04 in (1.0 mm)	V-0	--		
0.06 in (1.5 mm)	• V-0 • 5VA	--		
0.12 in (3.0 mm)	• V-0 • 5VA	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.04 in (1.0 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
0.04 in (1.0 mm)	1470 (800)	--	°F (°C)	
0.06 in (1.5 mm)	1470 (800)	--	°F (°C)	
0.12 in (3.0 mm)	1470 (800)	--	°F (°C)	

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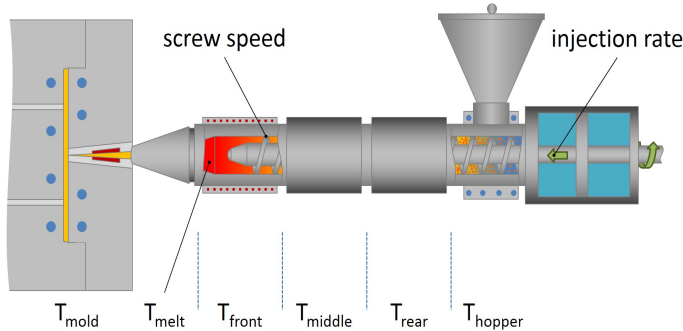
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	35	--	%	ISO 4589-2

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Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C
Mold Temperature	140 to 194 °F	60 to 90 °C
Back Pressure	< 591 in/min	< 15 m/min
Screw Speed	< 591 in/min	< 15 m/min

Injection Notes

Mould surface contacting melt should be of non-corrosive steel (content of chrome > 12%)

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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