

Technical Data Sheet

Schulamid RD 6 GBF 3025

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% reinforced compound based on Polyamide 6, reduced density

General

Filler / Reinforcement	• Glass Bead\Glass Fiber
Features	• Low Density
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-I-GF

Physical	Dry	Conditioned	Unit	Test Method
Density	1.24	--	g/cm ³	ISO 1183/A

Viscosity Number	128	--	cm ³ /g	ISO 307
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Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.23E+6 (8500)	798000 (5500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	23600 (163)	13500 (93.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	5.6	%	ISO 527-2/1A/5
Flexural Modulus	1.17E+6 (8080)	--	psi (MPa)	ISO 178
Flexural Stress	32300 (223)	--	psi (MPa)	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.8 (5.8)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	3.3 (7.0)	5.2 (11)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	21 (45)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	25 (52)	30 (62)	ft·lb/in ² (kJ/m ²)	

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Af
264 Psi (1.8 Mpa), Unannealed	414 (212)	--	°F (°C)	

Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 In (2.00 Mm)	< 3.9	--	in/min	ISO 3795
	(< 100)		(mm/min)	
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	--		

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Additional Information

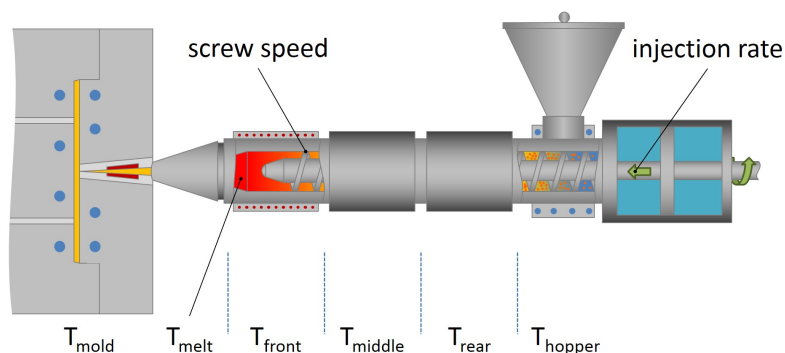
- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

Simulation data (also for Crash simulation) is available on special request

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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.