

Technical Data Sheet

Matrixx 15S3302

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

15S3302 is a 30% Fiberglass Reinforced, Flame Retardant Polypropylene Copolymer

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Flame Retardant
UL File Number	• E51193
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density / Specific Gravity	1.47	1.47 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Strength (Yield)	11500 psi	79.3 MPa	ASTM D638
Flexural Modulus - Tangent	1.00E+6 psi	6890 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Notched Izod Impact	2.0 ft-lb/in	110 J/m	ASTM D256
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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	315 °F	157 °C	
264 Psi (1.8 Mpa), Unannealed	295 °F	146 °C	

RTI Str			UL 746B
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0.06 In (1.5 Mm)	230 °F	110 °C	
0.12 In (3.0 Mm)	248 °F	120 °C	

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
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Flame Rating			UL 94
0.06 In (1.5 Mm)	V-0	V-0	
0.12 In (3.0 Mm)	5VA	5VA	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	350 to 400 °F	177 to 204 °C
Middle Temperature	350 to 440 °F	177 to 227 °C
Front Temperature	350 to 440 °F	177 to 227 °C
Nozzle Temperature	350 to 440 °F	177 to 227 °C
Processing (Melt) Temp	350 to 440 °F	177 to 227 °C
Mold Temperature	90 to 150 °F	32 to 66 °C
Injection Rate	Moderate	Moderate
Back Pressure	< 100 psi	< 0.689 MPa
Screw Speed	20 to 60 rpm	20 to 60 rpm
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

Notes

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