

Technical Data Sheet

Perlex R3533

Polycarbonate
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fibre filled FR PC with added UV stabilisation matched to RAL 3020

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Uses	• Machine/Mechanical Parts

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.35 g/cm ³	1.35 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 Kg)	8.0 g/10 min	8.0 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.27E+6 psi	8750 MPa	ISO 527-1
Tensile Stress (Break)	13800 psi	95.0 MPa	ISO 527-2
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2
Flexural Modulus	1.16E+6 psi	8000 MPa	ISO 178
Flexural Stress	20700 psi	143 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Area) (73°F (23°C))	4.76 ft·lb/in ²	10.0 kJ/m ²	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	275 °F	135 °C	ISO 75-2/A

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flame Rating			UL 94
0.06 In (1.6 Mm)	V-0	V-0	
0.13 In (3.2 Mm)	V-0	V-0	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 In (1.0 Mm)	1560 °F	850 °C	
0.08 In (2.0 Mm)	1560 °F	850 °C	
0.12 In (3.0 Mm)	1560 °F	850 °C	

Notes

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