

Technical Data Sheet

**Perlex R3530**

Polycarbonate  
LyondellBasell Industries  
Engineering Plastics

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 <sup>3</sup>	1.35 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 Kg)	10 g/10 min	10 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.22E+6 psi	8400 MPa	ISO 527-1
Tensile Stress (Yield)	13800 psi	95.0 MPa	ISO 527-2
Flexural Modulus	1.16E+6 psi	8000 MPa	ISO 178
Flexural Stress	25400 psi	175 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 <sup>2</sup>	10.0 kJ/m <sup>2</sup>	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	300 °F	149 °C	ISO 75-2/B
264 Psi (1.8 Mpa), Unannealed	289 °F	143 °C	ISO 75-2/A
Vicat Softening Temperature	293 °F	145 °C	ISO 306/B50

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.