Technical Data Sheet

Perlex R3520

Polycarbonate
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Uses	• Machine/Mechanical Parts

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.29 g/cm³	1.29 g/cm³	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	885000 psi	6100 MPa	ISO 527-1
Tensile Stress (Yield)	12300 psi	85.0 MPa	ISO 527-2
Flexural Modulus	856000 psi	5900 MPa	ISO 178
Flexural Stress	23100 psi	159 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (Area) (73°f (23°c))	4.76 ft·lb/in²	10.0 kJ/m²	ASTM D256
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	291 °F	144 °C	ISO 75-2/B
264 Psi (1.8 Mpa), Unannealed	280 °F	138 °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.