

Technical Data Sheet

Perlex R3520 GREY 6-2799

Polycarbonate

Product Description

Perlex R3520 GREY 6-2799 is a Polycarbonate Glass Fiber, 20% filled material.

Additive	Flame Retardant
Application	Machine/Mechanical Parts
Filler/Reinforcement	Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	10	g/10 min	ISO 1133
Density	1.29	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	85	MPa	ISO 527-2
Flexural Modulus	5900	MPa	ISO 178
Tensile Modulus	6100	MPa	ISO 527-1
Flexural Stress	159	MPa	ISO 178
Impact			
Notched Izod Impact (Area), (23 °C)	10.0	kJ/m ²	ASTM D256
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	145	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	144	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	138	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Glow Wire Ignition Temperature			
(3.0 mm)	850	°C	IEC 60695-2-13
(2.0 mm)	850	°C	IEC 60695-2-13
(1.0 mm)	850	°C	IEC 60695-2-13
UL Information			
Flame Rating			
(1.6 mm)	V-0		UL 94
(3.2 mm)	V-0		UL 94