Technical Data Sheet

Perlex R5553 IRON 6-1499

Polycarbonate

Product Description

Perlex R5553 IRON 6-1499 is a Polycarbonate material. Features include: UV Resistant.

Attribute	UV Resistant
Appearance	Clear/Transparent
Additive	Flame Retardant; UV Stabilizer
Application	Electrical Parts

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	12	g/10 min	ISO 1133
Density	1.2	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield	60	MPa	ISO 527-2
Tensile Strain at Break	>50	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527-1
Flexural Stress	95	MPa	ISO 178
Impact			
Notched Izod Impact (Area), (23 °C)	15.0	kJ/m²	ASTM D256
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	145	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	135	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	130	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
Glow Wire Ignition Temperature			
(3.0 mm)	960	°C	IEC 60695-2-13
(2.0 mm)	960	°C	IEC 60695-2-13
(1.0 mm)	960	°C	IEC 60695-2-13
UL Information			
Flame Rating			
(1.6 mm)	V-2		UL 94
(3.2 mm)	V-0		UL 94