

Technical Data Sheet

Perlex R223 WHITE 1-1312SM

Polycarbonate

Product Description

Perlex R223 WHITE 1-1312SM is a Polycarbonate material. Features include: UV Stabilized.

Attribute UV Stabilized

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	16	g/10 min	ISO 1133
Density	1.2	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	60	MPa	ISO 527-2
Tensile Strain at Yield	5	%	ISO 527-2
Tensile Modulus	2350	MPa	ISO 527-1
Flexural Stress	90	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C)	45	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C)	No Break		ISO 179
Hardness			
Ball Pressure Test, (125 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	142	°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)	125	°C	ISO 75-2/A
Flammable			
Burning Rate, (2.00 mm)	<75	mm/min	ISO 3795
Glow Wire Flammability Index	850	°C	IEC 60695-2-12
UL Information			
Flame Rating			
(3.2 mm)	HB		UL 94
(1.5 mm)	HB		UL 94