

Technical Data Sheet

Perlex R223 WHITE 1-1312SM



Polycarbonate

Product Description

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

Regulatory Status

For regulatory compliance information, see *Perlex* R223 WHITE 1-1312SM [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Limited Issue
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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