

Technical Data Sheet

Perlex R3510 WHI1-1056



Polycarbonate

Product Description

Perlex R3510 WHITE 1-1056 is a Polycarbonate Glass Fiber, 10% filled material.

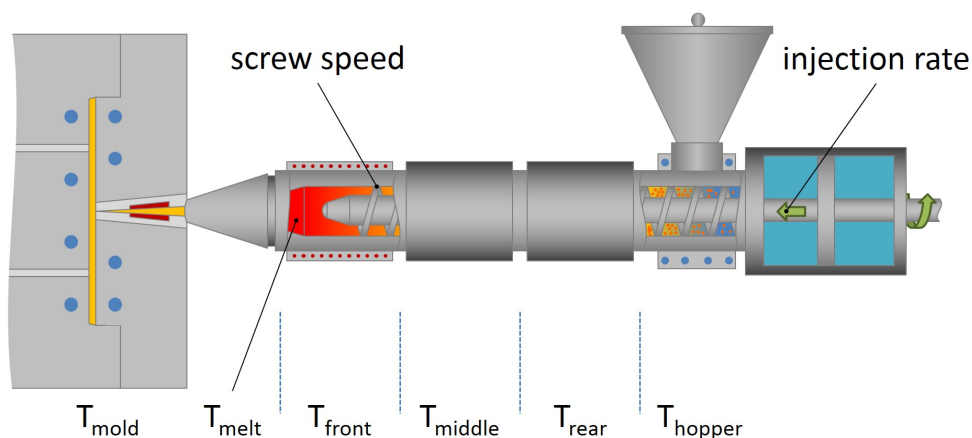
Regulatory Status

For regulatory compliance information, see Perlex R3510 WHI1-1056 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Limited Issue
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Additive	Flame Retardant
Application	Machine/Mechanical Parts
Filler/Reinforcement	Glass Fiber, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	10	g/10 min	ISO 1133
Density	1.25	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield	75	MPa	ISO 527-2
Tensile Strain at Break	5	%	ISO 527-2
Flexural Modulus	3900	MPa	ISO 178
Tensile Strain at Yield	5	%	ISO 527-2
Tensile Stress at Break	83	MPa	ISO 527-2
Tensile Modulus	4050	MPa	ISO 527-1
Flexural Stress	135	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C)	6.0	kJ/m ²	ISO 179
(-30 °C)	6.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(-30 °C)	58	kJ/m ²	ISO 179
(23 °C)	68	kJ/m ²	ISO 179
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
(A (10N), 50 °C/h)	152	°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)	128	°C	ISO 75-2/A
RTI Elec			
(1.6 mm)	80.0	°C	UL 746B
(3.2 mm)	80.0	°C	UL 746B

RTI Imp			
(1.6 mm)	80.0	°C	UL 746B
(3.2 mm)	80.0	°C	UL 746B
RTI Str			
(1.6 mm)	80.0	°C	UL 746B
(3.2 mm)	80.0	°C	UL 746B
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	175	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	0.0	mm/min	ISO 3795
(2.00 mm)	0.0	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-0		UL 94
(3.2 mm)	V-0		UL 94



Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	110 to 120	°C
Processing (Melt) Temp	270 to 310	°C
Mold Temperature	50 to 80	°C

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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