

PERLEX® R5550

Polycarbonate

A. Schulman Europe

Message:

PERLEX® R5550 is a Polycarbonate (PC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of PERLEX® R5550 are:

Flame Rated

Flame Retardant

Typical application of PERLEX® R5550: Housings

General Information			
UL YellowCard	E132739-567482		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Housings		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	15.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	135	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-2		
3.20 mm	V-0		
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	960	°C	
2.00 mm	960	°C	
3.00 mm	960	°C	

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Recommended distributors for this material

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