

## Technical Data Sheet

**Perlex R5550 NATURAL**

Polycarbonate

**Product Description***Perlex* R5550 NATURAL is a Polycarbonate material.

<b>Appearance</b>	Clear/Transparent
<b>Additive</b>	Flame Retardant
<b>Application</b>	Housings

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (300 °C/1.2 kg)	12	g/10 min	ISO 1133
Density	1.2	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
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
<b>Impact</b>			
Notched Izod Impact (Area), (23 °C)	15.0	kJ/m <sup>2</sup>	ASTM D256
<b>Thermal</b>			
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
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
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
<b>UL Information</b>			
Flame Rating			
(1.6 mm)	V-2		UL 94
(3.2 mm)	V-0		UL 94