

Perlex R5553 NAT

LyondellBasell Industries - Polycarbonate

General Information

Product Description

Perlex R5553 NAT is a Polycarbonate material. Features include: UV Resistant.

General

Additive	• Flame Retardant	• UV Stabilizer	
Features	• Flame Retardant	• UV Resistant	• UV Stabilized
Uses	• Electrical Parts		
Appearance	• Clear/Transparent		

Properties ¹

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
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	334000	psi	ISO 527-1
Tensile Stress (Yield)	8700	psi	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	348000	psi	ISO 178
Flexural Stress	13800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (73°F)	7.14	ft·lb/in ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	275	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	266	°F	ISO 75-2/A
Vicat Softening Temperature	293	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate			
0.0787 in	< 3.9	in/min	ISO 3795
0.0787 in	< 3.9	in/min	FMVSS 302
Flame Rating			UL 94
0.06 in		V-2	
0.13 in		V-0	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in	1760	°F	
0.08 in	1760	°F	
0.12 in	1760	°F	