

Technical Data Sheet

# Perlex R271

Polycarbonate  
LyondellBasell Industries  
Engineering Plastics

General	
Features	• Low Flow
Uses	• Building Materials
Processing Method	• Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm <sup>3</sup>	1.20 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 Kg)	4.0 g/10 min	4.0 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	348000 psi	2400 MPa	ISO 527-1
Tensile Stress (Yield)	9430 psi	65.0 MPa	ISO 527-2
Tensile Strain (Break)	100 %	100 %	ISO 527-2
Flexural Modulus	341000 psi	2350 MPa	ISO 178
Flexural Stress	14500 psi	100 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Area) (73°F (23°C))	28.6 ft·lb/in <sup>2</sup>	60.0 kJ/m <sup>2</sup>	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	275 °F	135 °C	ISO 75-2/B
264 Psi (1.8 Mpa), Unannealed	257 °F	125 °C	ISO 75-2/A
Vicat Softening Temperature	288 °F	142 °C	ISO 306/B50

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flame Rating	HB	HB	UL 94
Glow Wire Ignition Temperature			
0.08 In (2.0 Mm)	1560 °F	850 °C	IEC 60695-2-13

**Notes**

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