

SABIC Innovative Plastics Lexan® PPC4704 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

High heat resistant polycarbonate copolymer, provides of 165 C at 1.82 MPa. FDA food contact compliant in limited colors. Effective January 15th, 2008 this grade will no longer be supported with biocompatibility information and should not be used for medical applications which require biocompatibility. Alternative grade HPH4704. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-PPC4704-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	on tensile bar; SABIC Method
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 300 °C	6.0 g/10 min @Load 11.0 lb, Temperature 572 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	127	127	ISO 2039-2
Tensile Strength, Yield	70.0 MPa	10200 psi	50 mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; ISO 527
Elongation at Yield	7.0 %	7.0 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ISO 178

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 23.0 - 80.0 °C	44.4 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft ² -°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	170 °C	338 °F	Rate B/120; ISO 306

Thermal Properties	Metric	English	Comments ISO 306
	185 °C	365 °F	Rate A/50; ISO 306
Glow Wire Test	850 °C @Thickness 2.00 mm	1560 °F @Thickness 0.0787 in	Glow Wire Flammability Index; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.1 @Frequency 1.00e+6 Hz	3.1 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.026 @Frequency 100 Hz	0.026 @Frequency 100 Hz	IEC 60250

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	PASSES	IEC 60695-10-2

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