Lotte Advanced Materials Infino® AE-2150 PC/PET, 15% MF

Categories: Polymer; Thermoplastic; Polycarbonate (PC); Polycarbonate/PET Polyester Blend; Polyester, TP; Polyethylene Terephthalate (PET)

Material Notes: General, automotive

Information provided by Lotte Advanced Materials

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	Natural or representative color; ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	34 g/10 min @Load 5.00 kg, Temperature 260 °C	34 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238
Ash	15 %	15 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	58.8 MPa	8530 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	65.7 MPa	9530 psi	5 mm/min; ASTM D638
Elongation at Break	7.0 %	7.0 %	5 mm/min; ASTM D638
Tensile Modulus	3.53 GPa	512 ksi	5 mm/min; ASTM D638
Flexural Strength	86.3 MPa	12500 psi	2.8 mm/min; ASTM D790
Flexural Modulus	3.92 GPa	569 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 6.35 mm, Temperature -30.0 °C	0.918 ft-lb/in @Thickness 0.250 in, Temperature -22.0 °F	ASTM D256
	0.490 J/cm @Thickness 3.17 mm, Temperature -30.0 °C	0.918 ft-lb/in @Thickness 0.125 in, Temperature -22.0 °F	ASTM D256
	0.588 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.10 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	ASTM D256
	0.588 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	1.10 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 µm/m-°C @Temperature -40.0 - 40.0 °C	25.6 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E831
CTE, linear, Transverse to Flow	66.0 µm/m-°C @Temperature -40.0 - 40.0 °C	36.7 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	130 °C @Thickness 6.40 mm	266 °F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	123 °C @Thickness 6.40 mm	253 °F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	137 °C	279 °F	B/50; ISO R 306

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's terms of use regarding this information. Click here to view all the property values for this datasheet as they were originally entered into MatWeb.