

Quadrant EPP Duratron® PAI T7530, Compression Molded Carbon Fiber Reinforced Polyamide-Imide

Category : Polymer , Thermoplastic , Polyamide-imide (PAI)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Duratron-PAI-T7530-Compression-Molded-Carbon-Fiber-Reinforced-Polyamide-Imide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Water Absorption at Saturation	1.5 %	1.5 %	ASTM D570 2

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	90	90	ASTM D785
Tensile Strength	86.2 MPa	12500 psi	ASTM D638
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Elongation at Break	2.6 %	2.6 %	ASTM D638
Tensile Modulus	5.03 GPa	730 ksi	ASTM D638
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Flexural Strength	124 MPa	18000 psi	ASTM D790
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Compressive Strength	296 MPa	43000 psi	ASTM D965
	@Strain 10.0 %, Temperature 22.8 °C	@Strain 10.0 %, Temperature 73.0 °F	
Compressive Modulus	6.69 GPa	971 ksi	ASTM D695
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	Type "A"; ASTM D256
Coefficient of Friction	0.22	0.22	QTM 55007
K (wear) Factor	226 x 10 ⁻⁸ mm ³ /N-M	112 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	QTM 55010
Limiting Pressure Velocity	1.51 MPa-m/sec	43000 psi-ft/min	(with 4:1 safety factor applied); QTM 55007

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.519 W/m-K	3.60 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	275 °C	527 °F	ASTM D3418

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