

Manifattura Cattaneo VESPELÂ® SP22 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

Manifattura Cattaneo products are available in semi-finished forms such as bars, profiles, sheets and plates. Information provided by Manifattura Cattaneo s.p.a.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Manifattura-Cattaneo-VESPEL-SP22-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/inÂ³	ASTM D792
Water Absorption at Saturation	0.42 %	0.42 %	ASTM D570
Deformation	0.60 % @Time 86400 sec, Pressure 100 MPa	0.60 % @Time 24.0 hour, Pressure 14500 psi	ASTM D621

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Compressive Yield Strength	31.7 MPa @Strain 1.00 %, Time 3.60e+6 sec	4600 psi @Strain 1.00 %, Time 1000 hour	ASTM D695
Compressive Modulus	3.275 GPa	475.0 ksi	ASTM D695
Coefficient of Friction, Dynamic	0.30	0.30	on polished steel; MPC Test
Coefficient of Friction, Static	0.27	0.27	on polished steel; MPC Test
K Factor (Wear Factor)	0.40	0.40	Âµm/s. PV = 0.1 MPa-m/s; max P = 30 MPa; MPC Test
Limiting Pressure Velocity	12.0 MPa-m/sec	343000 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.0 Âµm/m-Â°C @Temperature 23.0 - 100 Â°C	21.1 Âµin/in-Â°F @Temperature 73.4 - 212 Â°F	
Thermal Conductivity	1.73 W/m-K	12.0 BTU-in/hr-ftÂ²- Â°F	ASTM D177
Maximum Service Temperature, Air	395 Â°C	743 Â°F	

Thermal Properties	Metric	English	Comments
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Compliance Properties	Metric	English	Comments
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FDA	No	No	
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Descriptive Properties	Value	Comments
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Color	Dark Gray	
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UV Resistance	N	
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