

Manifattura Cattaneo RULONÂ® W2 Polytetrafluoroethylene

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

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-RULON-W2-Polytetrafluoroethylene.php

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.00 % @Temperature 23.0 Â°C	0.00 % @Temperature 73.4 Â°F	50% RH; ASTM D570
Water Absorption at Saturation	0.00 %	0.00 %	ASTM D570
Deformation	3.0 % @Time 86400 sec, Pressure 100 MPa	3.0 % @Time 24.0 hour, Pressure 14500 psi	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D 2240
Tensile Strength at Break	12.4 MPa	1800 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Compressive Yield Strength	5.90 - 6.20 MPa @Strain 1.00 %, Time 3.60e+6 sec	856 - 899 psi @Strain 1.00 %, Time 1000 hour	ASTM D695
Compressive Modulus	0.450 GPa	65.3 ksi	ASTM D695
Coefficient of Friction, Dynamic	0.30	0.30	on polished steel; MPC Test
Coefficient of Friction, Static	0.15	0.15	on polished steel; MPC Test
K Factor (Wear Factor)	0.10	0.10	Âµm/s. PV = 0.1 MPa-m/s; max P = 6.9 MPa; MPC Test
Limiting Pressure Velocity	0.350 MPa-m/sec	9990 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	108 - 154 Âµm/m-Â°C	60.0 - 85.6 Âµin/in-Â°F	

Thermal Properties	Metric @Temperature 23.0 - 100 Â°C	English @Temperature 73.4 - 212 Â°F	Comments
CTE, linear, Transverse to Flow	84.0 - 110 Âµm/m-Â°C	46.7 - 61.1 Âµin/in-Â°F	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Thermal Conductivity	0.650 W/m-K	4.51 BTU-in/hr-ftÂ²- Â°F	ASTM D177
Maximum Service Temperature, Air	288 Â°C	550 Â°F	
Minimum Service Temperature, Air	-240 Â°C	-400 Â°F	
Flammability, UL94	V-0	V-0	

Compliance Properties	Metric	English	Comments
FDA	No	No	

Descriptive Properties	Value	Comments
Color	Dull Black	
UV Resistance	Y	

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