

## Manifattura Cattaneo RULONÂ® J 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-J-Polytetrafluoroethylene.php](http://www.lookpolymers.com/polymer_Manifattura-Cattaneo-RULON-J-Polytetrafluoroethylene.php)

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/inÂ³	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	0.30 %	0.30 %	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	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	180 %	180 %	ASTM D638
Compressive Yield Strength	3.60 MPa @Strain 1.00 %, Time 3.60e+6 sec	522 psi @Strain 1.00 %, Time 1000 hour	ASTM D695
Compressive Modulus	0.420 GPa	60.9 ksi	ASTM D695
Coefficient of Friction, Dynamic	0.20	0.20	on polished steel; MPC Test
Coefficient of Friction, Static	0.12	0.12	on polished steel; MPC Test
K Factor (Wear Factor)	0.65	0.65	Âµm/s. PV = 0.1 MPa-m/s; max P = 5.2 MPa; MPC Test
Limiting Pressure Velocity	0.260 MPa-m/sec	7420 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	122 Âµm/m-Â°C	67.8 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	93.0 Âµm/m-Â°C @Temperature 23.0 Â°C	51.7 Âµin/in-Â°F @Temperature 73.4 Â°F	
Thermal Conductivity	0.240 W/m-K	1.67 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	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.20e+20 ohm-cm	8.20e+20 ohm-cm	ASTM D257
Surface Resistance	6.30e+18 ohm	6.30e+18 ohm	ASTM D257
Dielectric Constant	2.4 @Frequency 1.00e+6 Hz	2.4 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	17.9 kV/mm @Thickness 2.00 mm	455 kV/in @Thickness 0.0787 in	ASTM D149
Dielectric Loss Index	0.0015 @Frequency 1.00e+6 Hz	0.0015 @Frequency 1.00e+6 Hz	ASTM D150

Compliance Properties	Metric	English	Comments
FDA	No	No	

Descriptive Properties	Value	Comments
Color	Dull Gold	
UV Resistance	Y	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China