

## Quadrant EPP Fluorosint® MT-01 PTFE + additives, enhanced grade, compression moulded (ISO Data)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

### Material Notes:

Fluorosint MT-01 is an extreme service grade developed specifically for applications where the benefits of PTFE-based materials also require strength, stiffness and stability. Fluorosint MT-01 delivers high mechanical performance at elevated temperature and as a result is often specified in seat, seal and wear applications where extreme conditions are present High maximum allowable service temperature in air (260°C continuously) Excellent chemical and hydrolysis resistance Outstanding UV- and weather resistance Physiologically inert (suitable for food contact, except Fluorosint 500, Fluorosint MT-01) Inherent low flammability Good electrical insulating properties

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Quadrant-EPP-Fluorosint-MT-01-PTFE-additives-enhanced-grade-compression-moulded-ISO-Data.php](http://www.lookpolymers.com/polymer_Quadrant-EPP-Fluorosint-MT-01-PTFE-additives-enhanced-grade-compression-moulded-ISO-Data.php)

Physical Properties	Metric	English	Comments
Density	2.27 g/cc	0.0820 lb/in <sup>3</sup>	ISO 1183-1
Water Absorption at Saturation	1.5 - 2.5 %	1.5 - 2.5 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	74	74	ISO 2039-2
Hardness, Shore D	70	70	
Ball Indentation Hardness	55.0 MPa	7980 psi	ISO 2039-1
Tensile Strength	14.0 MPa	2030 psi	at Yield; ISO 527-1/-2
Elongation at Break	20 %	20 %	ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-1/-2
Tensile Modulus	1.90 GPa	276 ksi	ISO 527-1/-2
Flexural Strength	20.0 MPa	2900 psi	
Compressive Strength	11.0 MPa	1600 psi	ISO 604
	@Strain 1 %	@Strain 1 %	
	17.0 MPa	2470 psi	
	@Strain 2 %	@Strain 2 %	ISO 604
	29.0 MPa	4210 psi	ISO 604
	@Strain 5 %	@Strain 5 %	
K Factor (ISO)	6.0 µm/km	6.0 µm/km	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 179-1/1eA
Coefficient of Friction, Dynamic	0.15 - 0.25	0.15 - 0.25	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 μm/m-°C	33.3 μin/in-°F	
	@Temperature 23.0 - 100 °C	@Temperature 73.4 - 212 °F	
Melting Point	327 °C	621 °F	DSC, 10°C/min.; ISO 11357-1/-3
Maximum Service Temperature, Air	260 °C	500 °F	Continuous
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 95 %	>= 95 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	<= 1e+05	<= 1e+05	IEC 60093

Compliance Properties	Metric	English	Comments
3A-Dairy	No	No	
European Food 1935/2004	No	No	
FDA	No	No	
USP Class VI	No	No	

Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Acceptable	Acceptable	
Acids, Weak	Acceptable	Acceptable	
Alcohols	Acceptable	Acceptable	
Alkalies, Strong (pH 11-14)	Unacceptable	Unacceptable	
Alkalies, Weak	Acceptable	Acceptable	
Chlorinated Solvents	Acceptable	Acceptable	
Conductive / Static Dissipative	Yes	Yes	

Chemical Resistance Properties	Metric	English	Comments
Hot Water / Steam	Limited	Limited	
Hydrocarbons - Aliphatic	Acceptable	Acceptable	
Hydrocarbons - Aromatic	Acceptable	Acceptable	
Inorganic Salt Solutions	Acceptable	Acceptable	
Ketones, Esters	Acceptable	Acceptable	

## Contact Songhan Plastic Technology Co.,Ltd.

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