

Solvay Specialty Polymers Hyflon® MFA® F1530 Perfluoropolymer

Category : Polymer , Thermoplastic , Fluoropolymer , TFE/Perfluoromethylvinylether Copolymer (MFA)

Material Notes:

Hyflon® MFA is a family of perfluoro polymers which combine excellent mechanical characteristics to unique properties such as chemical inertness, high flexural endurance, inherent flame resistance, low surface energy and exceptional dielectric properties. Hyflon® MFA F1530 is a medium-low melt flow rate multi purpose resin with an exceptional stress crack resistance, continuous service temperature up to 225°C and a 40-60x10³ cycles flex life (on a 0.3 mm film, ASTM D2176). Features: Flame Retardant; High ESCR (Stress Crack Resist.); Medium Flow Uses: General Purpose; Wire & Cable Applications Additional Properties: Crystallization Heat - DSC 16.0 to 24.0 J/g; Flange Temperature - 370 to 400 °C; Flex Life - ASTM D2176 4.0E+4 to 6.0E+4 Cycles; Heat of Fusion - DSC 16.0 to 24.0 J/g Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hyflon-MFA-F1530-Perfluoropolymer.php

Physical Properties	Metric	English	Comments
Density	2.11 - 2.16 g/cc	0.0762 - 0.0780 lb/in ³	ASTM D792
Melt Flow	4.0 - 8.0 g/10 min @Load 5.00 kg, Temperature 372 °C	4.0 - 8.0 g/10 min @Load 11.0 lb, Temperature 702 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	ASTM D2240
Tensile Strength at Break	>= 28.0 MPa	>= 4060 psi	50 mm/min; ASTM D638
Elongation at Break	>= 300 %	>= 300 %	50 mm/min; ASTM D638
Tensile Modulus	0.400 - 0.500 GPa	58.0 - 72.5 ksi	1.0 mm/min; ASTM D638
Izod Impact, Notched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 - 200 µm/m-°C	66.7 - 111 µin/in-°F	
Specific Heat Capacity	0.900 - 1.10 J/g-°C	0.215 - 0.263 BTU/lb-°F	ASTM C351
Thermal Conductivity	0.200 W/m-K @Temperature 40.0 °C	1.39 BTU-in/hr-ft ² -°F @Temperature 104 °F	ASTM C177
Melting Point	265 - 275 °C	509 - 527 °F	DSC
Crystallization Temperature	255 - 265 °C	491 - 509 °F	Peak; ASTM D3418

Thermal Properties	Metric	English	Comments
Oxygen Index	95 %	95 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+17 ohm-cm	>= 1.00e+17 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+17 ohm	>= 1.00e+17 ohm	ASTM D257
Dielectric Constant	2.0	2.0	ASTM D150
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	2.0	2.0	ASTM D150
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
Dielectric Strength	35.0 - 40.0 kV/mm	889 - 1020 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	<= 0.00050	<= 0.00050	ASTM D150
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	<= 0.00050	<= 0.00050	ASTM D150
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	

Processing Properties	Metric	English	Comments
Zone 1	240 - 290 Â°C	464 - 554 Â°F	
Zone 2	270 - 320 Â°C	518 - 608 Â°F	
Zone 3	300 - 360 Â°C	572 - 680 Â°F	
Zone 4	320 - 380 Â°C	608 - 716 Â°F	
Zone 5	340 - 390 Â°C	644 - 734 Â°F	
Adapter Temperature	370 - 400 Â°C	698 - 752 Â°F	
Melt Temperature	400 Â°C	752 Â°F	
Die Cooling Temperature	390 - 420 Â°C	734 - 788 Â°F	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	

Descriptive Properties	Value	Comments
	Latin America	
	North America	
Form	Pellets	
Processing Technique	Extrusion Coating	
RoHS Compliance	RoHS Compliant	

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