

Solvay Specialty Polymers Hyflon® MFA® F1540 Perfluoropolymer

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

Material Notes:

Hyflon® MFA is a unique 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 F1540 is a medium-high melt flow rate multi purpose resin with an exceptional stress crack resistance, continuous service temperature up to 225°C and a 13-15 x 10³ cycles flex-life (on a 0.3 mm film, ASTM D2176). Features: Flame Retardant; High ESCR (Stress Crack Resist.); High Flow Uses: General Purpose; Wire & Cable Applications Additional Properties: Crosshead Temperature - 380 to 410 °C; 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; Wire Preheat - 120 °C Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hyflon-MFA-F1540-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	8.0 - 18 g/10 min @Load 5.00 kg, Temperature 372 °C	8.0 - 18 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	>= 25.0 MPa	>= 3630 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	330 - 380 Â°C	626 - 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	390 - 420 Â°C	734 - 788 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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