

## Evonik Corporation Dyflor® ME PVDF

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

### Material Notes:

Thermoplastic, high viscosity plastic resin for injection molding, compression molding and extrusion. Applications: Chemical facilities, machinery and vehicle construction, cable industry. ISO data as provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Dyflor-ME-PVDF.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Dyflor-ME-PVDF.php)

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in <sup>3</sup>	
Water Absorption	0.00 %	0.00 %	
Melt Flow	2.0 g/10 min	2.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	9.0 %	9.0 %	
Modulus of Elasticity	2.10 GPa	305 ksi	
Charpy Impact Unnotched	NB	NB	
	26.0 J/cm <sup>2</sup>	124 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	3.20 J/cm <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	
	1.10 J/cm <sup>2</sup>	5.24 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	210 kJ/m <sup>2</sup>	99.9 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	1150 MPa	167000 psi	
Tensile Creep Modulus, 1000 hours	900 MPa	131000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	100 µm/m-°C	55.6 µin/in-°F	

CTE, linear, Transverse to Flow Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	
Vicat Softening Point	166 °C	331 °F	50°C/hr/50 N
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	8.00e+12 ohm-cm	8.00e+12 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	8.0 @Frequency 1e+6 Hz	8.0 @Frequency 1e+6 Hz	
	10 @Frequency 100 Hz	10 @Frequency 100 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	
Dissipation Factor	0.032 @Frequency 100 Hz	0.032 @Frequency 100 Hz	
	0.25 @Frequency 1e+6 Hz	0.25 @Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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