

Arkema Group Kynar® FLEX 2800 PVDF (discontinued **)

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

Material Notes:

Designation ISO 12086-VDF/HFP-K, EG1N, N. ?E7.D.G.B.C., ? (3.5-7.5)Kynar FLEX PVDF are fluorinated thermoplastic copolymers. Outstanding characteristics of Kynar FLEX: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermomechanical properties. Main applications of Kynar FLEX: corrosion protection in the chemical industry, coating (painting, coextrusion), off shore, wire and cable. Kynar FLEX 2800 is a standard grade of granules which exhibits, compared to the homopolymer grades, a lower modulus, a better resistance to stress cracking in alkaline and oxidizing media, and a lower melting point. For cable coating, extrusion of tube and plaque, compression molding of bulky parts. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Kynar-FLEX-2800-PVDF-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	
Water Absorption	0.030 %	0.030 %	
Moisture Absorption at Equilibrium	0.015 %	0.015 %	Humidity Absorption
Melt Flow	0.50 g/10 min @Load 5.00 kg, Temperature 230 °C	0.50 g/10 min @Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	12 %	12 %	50 mm/min
Tensile Modulus	0.700 GPa	102 ksi	1 mm/min
Charpy Impact, Notched	8.60 J/cm ²	40.9 ft-lb/in ²	
	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C @Temperature 20.0 °C	88.9 µin/in-°F @Temperature 68.0 °F	
Melting Point	142 °C	288 °F	10°C/min
Deflection Temperature at 0.46 MPa	68.0 °C	154 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C	118 °F	
Vicat Softening Point	79.0 °C	174 °F	50°C/hr; 50N
Glass Transition Temp, Tg	-36.0 °C	-32.8 °F	10°C/min
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	42 %	42 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
Dielectric Constant	6.8	6.8	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	11	11	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.052	0.052	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.233	0.233	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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