

Arkema Group Kynar® FLEX 2801 PVDF (discontinued **)

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

Material Notes:

Designation ISO 12086-VDF/HFP-K, EDN, 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 2801 is the powder form of the Kynar FLEX 2800. To be used as an additive in LLDPE to improve the extrusion rate. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Kynar-FLEX-2801-PVDF-nbspdiscontinued-.php

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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C	88.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	142 °C	288 °F	10°C/min
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 0.800 mm	@Thickness 0.0315 in	

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	42 %	42 %	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.8	6.8	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.233	0.233	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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