

Arkema Group Kynar® FLEX 2822 PVDF (discontinued **)

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

Material Notes:

Designation ISO 12086-VDF/HFP-K, EDN, N. ?E5.C.H.B.C., ? (4-8)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 2822 is a powder identical in composition with the Kynar FLEX 2821 but with a lower viscosity. 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-2822-PVDF-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	
Water Absorption	0.030 %	0.030 %	
Melt Flow	2.8 g/10 min	2.8 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	24.0 MPa	3480 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	12 %	12 %	50 mm/min
Tensile Modulus	0.680 GPa	98.6 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	76.0 °C	169 °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	

Thermal Properties	Metric	English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Oxygen Index	42 %	42 %	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.0	6.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.057	0.057	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.234	0.234	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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