

Arkema Group Kynar® 1000 HDC N 118 PVDF (discontinued **)

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

Material Notes:

Designation ISO 12086-PVDF-E,GG1C,P. ?E5.I.B.E.C,, ?(1.5-2.5)Kynar PVDF are fluorinated thermoplastic homopolymers.Outstanding characteristics of Kynar: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermomechanical properties.Main applications of Kynar: corrosion protection in the chemical industry, coating (painting, coextrusion), off shore, wire and cable.Kynar 1000 HDC N 118 has the same properties than Kynar 1000 HD and is used in the same applications (compression and transfer molding, extrusion of thick walled parts: blocks, rods, plaques, tubes) but is black colored.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Kynar-1000-HDC-N-118-PVDF-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	
Melt Flow	1.1 g/10 min @Load 5.00 kg, Temperature 230 °C	1.1 g/10 min @Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	9.0 %	9.0 %	50 mm/min
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min

Thermal Properties	Metric	English	Comments
Melting Point	169 °C	336 °F	10°C/min
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.4 @Frequency 1e+6 Hz	6.4 @Frequency 1e+6 Hz	

Electrical Properties	^{9.5} Metric	^{9.5} English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.069	0.069	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.246	0.246	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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