

## Arkema Group Kynar® 4000 HD PVDF (discontinued \*\*)

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

### Material Notes:

Designation ISO 12086-PVDF-E,GG1N,Q.?E5.I.B.E.C.,?(6-10)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 4000 HD is a grade of granules for extrusion of thin walled parts, film extrusion and injection molding.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Kynar-4000-HD-PVDF-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Arkema-Group-Kynar-4000-HD-PVDF-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in <sup>3</sup>	
Water Absorption	0.030 %	0.030 %	
Moisture Absorption at Equilibrium	0.015 %	0.015 %	Humidity Absorption
Melt Flow	4.5 g/10 min @Load 5.00 kg, Temperature 230 °C	4.5 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	2.20 GPa	319 ksi	1 mm/min
Charpy Impact Unnotched	25.5 J/cm <sup>2</sup>	121 ft-lb/in <sup>2</sup>	
	22.2 J/cm <sup>2</sup> @Temperature -30.0 °C	106 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	
	0.500 J/cm <sup>2</sup> @Temperature -30.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 µm/m-°C	83.3 µin/in-°F	

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Melting Point	171 °C	340 °F	10°C/min
Deflection Temperature at 1.8 MPa (264 psi)	107 °C	225 °F	
Vicat Softening Point	139 °C	282 °F	50°C/hr; 50N
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	10°C/min
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	80.7 %	80.7 %	

Electrical Properties	Metric	English	Comments
Dielectric Constant	7.2	7.2	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	9.9	9.9	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.030	0.030	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.226	0.226	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China