

3M Dyneon™ PVDF 6008/0001 Polyvinylidene Fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

Polyvinylidene Fluoride (PVDF) is ideal for multiple applications across a wide array of industries. Widely used in the chemical process industry, wire and cable industry, semiconductor industry, and oil and gas industry, PVDF is also gaining recognition in automotive, building, electronics, pharmaceutical and batteries. 3M™ Dyneon™ PVDF 6008/0001 is easily processed under a variety of conventional thermoplastic conversion techniques, being particularly suitable for extrusion. PVDF 6008/0001 is inherently pure and chemically resistant against a variety of aggressive fluids and solvents. PVDF 6008/0001 exhibits excellent dimensional stability, abrasion resistance and high strength, and maintains its mechanical properties at elevated temperature. Excellent chemical resistance to a variety of aggressive fluids and solvents. Good permeation resistance. Smooth, anti-fouling surfaces. Injection molding grade. Excellent strength and dimensional stability. Good color stability. Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-60080001-Polyvinylidene-Fluoride.php

| Physical Properties | Metric | English | Comments |
|------------------------|--------------------------------------|--------------------------------------|---------------------------------|
| Density | 1.78 g/cc | 0.0643 lb/in ³ | ISO 1183 |
| Water Absorption | <= 0.040 % | <= 0.040 % | 24 hr @ 23°C; ISO 62 (method 1) |
| Melt Index of Compound | 8.0 g/10 min | 8.0 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 230 °C | @Load 4.76 lb, Temperature 446 °F | |
| | 24 g/10 min | 24 g/10 min | ASTM D1238 |
| | @Load 5.00 kg, Temperature 230 °C | @Load 11.0 lb, Temperature 446 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|---------------------|
| Tensile Strength at Break | 55.0 MPa | 7980 psi | 50mm/min; ASTM D638 |
| Tensile Strength, Yield | 42.0 MPa | 6090 psi | 50mm/min; ASTM D638 |
| Elongation at Break | 35 % | 35 % | 50mm/min; ASTM D638 |
| Elongation at Yield | 7.0 % | 7.0 % | 50mm/min; ASTM D638 |
| Flexural Modulus | 2.20 GPa | 319 ksi | 2mm/min; ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|------------|
| Melting Point | 174 °C | 345 °F | ASTM D3418 |
| Deflection Temperature at 0.46 MPa (66 psi) | 147 °C | 297 °F | ASTM D648 |

| Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small> | 112 °C Metric | 234 °F English | Comments |
|--|----------------------------|-----------------------------|-------------------|
| Flammability, UL94 | V-0 | V-0 | |
| Oxygen Index | 44 % @Thickness 3.00 mm | 44 % @Thickness 0.118 in | Sheet; ASTM D2863 |
| Shrinkage | 3.0 % | 3.0 % | |

| Descriptive Properties | Value | Comments |
|------------------------|---------|----------|
| Form | Pellets | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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