

3M Dyneon™ PVDF 1012/0001 Polyvinylidene Fluoride (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

High molecular weight grade PVDF Suitable for compression molding or extrusion Excellent chemical resistance to a wide variety of aggressive fluids and solvents Good permeation resistance Excellent strength and dimensional stability Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PVDF-10120001-Polyvinylidene-Fluoride-nbspdiscontinued-.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 | 0.50 g/10 min | 0.50 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 230 °C | @Load 4.76 lb, Temperature 446 °F | |
| | 1.5 g/10 min | 1.5 g/10 min | |
| | @Load 5.00 kg, Temperature 230 °C | @Load 11.0 lb, Temperature 446 °F | ASTM D1238 |
| | 5.0 g/10 min | 5.0 g/10 min | ASTM D1238 |
| | @Load 10.0 kg, Temperature 230 °C | @Load 22.0 lb, Temperature 446 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|---------------------|
| Tensile Strength at Break | 42.0 MPa | 6090 psi | ASTM D638 |
| Tensile Strength, Yield | 55.0 MPa | 7980 psi | 50mm/min; ASTM D638 |
| Elongation at Break | 35 % | 35 % | ASTM D638 |
| Elongation at Yield | 7.0 % | 7.0 % | 50mm/min; ASTM D638 |
| Flexural Modulus | 2.10 GPa | 305 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) | 145 °C | 293 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 112 °C | 234 °F | |

| Flammability UL 94 Thermal Properties | V-0 Metric | V-0 English | Comments |
|--|-------------------------------|--------------------------------|-------------------|
| Oxygen Index | >= 44 % @Thickness 3.00 mm | >= 44 % @Thickness 0.118 in | Sheet; ASTM D2863 |

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

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