

Solvay Specialty Polymers Hylar[®] 5000 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

Hylar[®] 5000 is a crystalline high molecular weight powder form of polyvinylidene fluoride (PVDF) specifically designed for solvent-based coatings to provide improved gloss. It forms mechanically strong and tough films that have a broad useful temperature range. These films are highly resistant to most environmental conditions including gamma radiation and are essentially transparent to ultraviolet radiation. The weathering characteristics of Hylar[®] 5000 coatings lead to excellent performance for the long term. Features: Clean/High Purity; Crystalline; Good Strength; Good Toughness; Good UV Resistance; Good Weather Resistance; High Molecular Weight; Low to No Odor; Radiation (Gamma) Resistant Uses: Coating Applications; Film Additional Properties: 1% wt Loss (TGA) - TGA 382 to 393 Å°C; Hegman Grind - ASTM D1210 5.50 to 6.00; Moisture Content - < 0.50 %; Purity - > 99.5 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hylar-5000-Polyvinylidene-Fluoride-PVDF.php

Physical Properties	Metric	English	Comments
Density	1.75 - 1.77 g/cc	0.0632 - 0.0639 lb/in ³	ASTM D792
Water Absorption at Saturation	0.040 %	0.040 %	ASTM D570
Viscosity	2.90e+6 - 3.30e+6 cP @Shear Rate 100 1/s, Temperature 232 Å°C	2.90e+6 - 3.30e+6 cP @Shear Rate 100 1/s, Temperature 450 Å°F	Melt Viscosity; ASTM D3835

Thermal Properties	Metric	English	Comments
Melting Point	156 - 160 Å°C	313 - 320 Å°F	DSC

Optical Properties	Metric	English	Comments
Gloss	>= 25 %	>= 25 %	60Å°; ASTM D2457

Descriptive Properties	Value	Comments
Availability	Europe; North America	
Color	White	
Form	Powder	
Processing Technique	Coating	

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