Solvay Specialty Polymers HylarÂ® 5000 HG Polyvinylidene Fluoride (PVDF)

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

Material Notes:

HylarÂ® 5000 HG 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 HylarÂ® 5000 HG coatings lead to excellent performance for the long term.HylarÂ® 5000 is available only via a licensing program that specifies the composition of HylarÂ® 5000 HG coatings. A properly formulated finish contains sufficient pigment to make the film totally opaque to ultraviolet radiation at the nominal one mil (0.001 inch) film thickness suggested.Features: Clean/High Purity; Crystalline; Good Strength; Good Toughness; Good UV Resistance; Good Weather Resistance; High Gloss; High Molecular Weight; Low to No Odor; Radiation (Gamma) ResistantUses: Coating Applications; FilmAdditional Properties: Gloss - ASTM D523 40.0 min; Hegman Grind - ASTM D1210 5.50 to 6.00; Moisture Content - < 0.50 %; Purity - > 99.5 %; Thermal Decomposition Temperature - TGA 382 to 393 Â°CInformation provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Hylar-5000-HG-Polyvinylidene-Fluoride-PVDF.php

Physical Properties	Metric	English	Comments
Density	1.75 - 1.77 g/cc	0.0632 - 0.0639 lb/inÂ³	ASTM D792
Water Absorption at Saturation	0.040 %	0.040 %	ASTM D570
Viscosity	1.75e+6 - 2.05e+6 cP	1.75e+6 - 2.05e+6 cP	Melt Viscosity; ASTM D3835

Thermal Properties	Metric	English	Comments
Melting Point	164 - 167 Â°C	327 - 333 Â°F	DSC

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

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