

Solvay Specialty Polymers Solef® 1015 Polyvinylidene Fluoride (PVDF) (Unverified Data**)

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

Material Notes:

Solef® 1015 PVDF homopolymer has very high viscosity, suitable for membrane manufacturing. It is available exclusively as powder. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-1015-Polyvinylidene-Fluoride-PVDF-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.80 g/cc	1.75 - 1.80 g/cc	ASTM D792
Water Absorption	<= 0.040 % @Temperature 23.0 °C, Time 86400 sec	<= 0.040 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Melt Flow	2.8 - 4.6 g/10 min @Load 21.6 kg, Temperature 230 °C	2.8 - 4.6 g/10 min @Load 47.6 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 - 50.0 MPa @Thickness 2.00 mm, Temperature 23.0 °C	5080 - 7250 psi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Tensile Strength, Yield	53.0 - 57.0 MPa @Thickness 2.00 mm, Temperature 23.0 °C	7690 - 8270 psi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Elongation at Break	20 - 50 % @Thickness 2.00 mm, Temperature 23.0 °C	20 - 50 % @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Elongation at Yield	5.0 - 10 % @Thickness 2.00 mm, Temperature 23.0 °C	5.0 - 10 % @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Tensile Modulus	2.10 - 2.30 GPa @Thickness 2.00 mm, Temperature 23.0 °C	305 - 334 ksi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 1.0 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Heat of Fusion	50.0 - 56.0 J/g	21.5 - 24.1 BTU/lb	Crystallization Heat; ASTM D3417

Thermal Properties	57.0 - 66.0 J/g Metric	24.9 - 28.4 BTU/lb English	ASTM D3417 Comments
Melting Point	171 - 175 °C	340 - 347 °F	ASTM D3418
Crystallization Temperature	137 - 144 °C	279 - 291 °F	Peak, DSC; ASTM D3418
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	ASTM D4065

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Homopolymer	
	Very high Viscosity	
Forms	Powder	
Generic	PVDF	
Uses	Membranes	

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