

Solvay Specialty Polymers Udel® P-1720 Polysulfone (PSU) (discontinued **)

Category: Polymer, Thermoplastic, Polysulfone (PSU)

Material Notes:

Udel P-1720 is a flame-retardant grade of polysulfone (PSU) that has a UL94 rating of V-0 at a thickness of 1 mm (0.039"). In general, polysulfone is a tough, rigid, high-strength thermoplastic that is suitable for continuous use up to 149°C (300°F). The resin is resistant to oxidation and hydrolysis and can withstand prolonged exposure to high temperatures and repeated sterilization. Udel polysulfone is highly resistant to mineral acids, alkali and salt solutions. Its resistance to detergents and hydrocarbon oils is good, but it will be attacked by polar solvents such as ketones, chlorinated hydrocarbons and aromatic hydrocarbons. - Black: P-1720 BK 935 - Natural: P-1720 NT 13Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Udel-P-1720-Polysulfone-PSU-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
Melt Flow	7.0 g/10 min	7.0 g/10 min	
	@Load 2.16 kg, Temperature 343 °C	@Load 4.76 lb, Temperature 649 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	70.3 MPa	10200 psi	ASTM D638
Elongation at Break	50 - 100 %	50 - 100 %	ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	ASTM D638
Flexural Strength	106 MPa	15400 psi	ASTM D790
Flexural Modulus	2.69 GPa	390 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Tensile Impact Strength	420 kJ/m²	200 ft-lb/in²	ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	56.0 μm/m-°C	31.1 μin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °F	Unannealed; ASTM D648



Thermal Properties	W-0 Metric	V-0 English	Comments
	@Thickness 0.991 mm	@Thickness 0.0390 in	

Processing Properties	Metric	English	Comments
Melt Temperature	329 - 385 °C	624 - 725 °F	
Mold Temperature	121 - 163 °C	250 - 325 °F	
Drying Temperature	135 - 163 °C	275 - 325 °F	
Dry Time	3.50 hour	3.50 hour	
Shot Size	50 - 75 %	50 - 75 %	

Black Natural Color Asia Pacific	
Asia Pacific	
Europe	
North America	
South America	
Acid Resistant	
Alcohol Resistant	
Alkali Resistant	
Flame Retardant	
Good Chemical Resistance	
Good Dimensional Stability	
Good Toughness	
High Heat Resistance	
Hydrocarbon Resistant	
Hydrolytically Stable	
Pellets	
PSU	
	North America South America Acid Resistant Alcohol Resistant Alkali Resistant Flame Retardant Good Chemical Resistance Good Dimensional Stability Good Toughness High Heat Resistance Hydrocarbon Resistant Hydrolytically Stable



Descriptive Properties	Value Value	Comments
	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Appliances	
	Automotive Electronics	
	Batteries	
	Business Equipment	
	Electrical Parts	
	Electrical/Electronic Applications	
	Food Service Applications	
	Industrial Parts	
	Medical/Healthcare Applications	
	Microwave Cookware	
	Piping	
	Plumbing Parts	
	Valves/Valve Parts	

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