

Kuraray SEPTONÂ® S4033 Thermoplastic Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

SEPTONÂ® is a series of high performance thermoplastic rubbers developed by Kuraray Co. Ltd. using its isoprene technology. SEPTONÂ® resins are hydrogenated styrenic block copolymers, which exhibit rubber-like properties over a wide range of temperatures. SEPTONÂ®'s characteristics include:Excellent Mechanical PropertiesGood WeatherabilityExcellent Low Temperature PropertiesExcellent Electrical PropertiesSuperior Heat ResistanceExcellent Chemical ResistanceLow ToxicitySEPTONÂ® grades are available with a range of Shore A hardness of 35-95 and tensile strengths of 290-5600 psi. SEPTONÂ® resins are highly extendible with fillers, resins and oils, which allows formulation of a variety of hardness for adhesives, sealants and various compounds. As an additive, SEPTONÂ® resins can be used to improve toughness of a variety of plastics. Several SEPTONÂ® grades have U.S. FDA and USP Class VI approval. SEPTONÂ® has a versatile series of grades which can be used in numerous processing techniques such as blow molding, injection molding, extrusion, hot melt and solution coatings. SEPTONÂ® resins are thermoplastics therefore, the scrap is recyclable without significant loss of properties. Information provided by The Kuraray Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-SEPTON-S4033-Thermoplastic-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ISO 1183
Viscosity	50 cP	50 cP	10% wt, Toluene Solution
	@Temperature 30.0 Å°C	@Temperature 86.0 Å°F	
	390 cP	390 cP	15% wt, Toluene Solution
	@Temperature 30.0 Å°C	@Temperature 86.0 Å°F	
Melt Flow	<= 0.10 g/10 min	<= 0.10 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 Å°C	@Load 4.76 lb, Temperature 446 Å°F	
	<= 0.10 g/10 min	<= 0.10 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 200 Å°C	@Load 22.0 lb, Temperature 392 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	76	76	ISO 48
Tensile Strength, Ultimate	35.3 MPa	5120 psi	ISO 37
Elongation at Break	500 %	500 %	
100% Modulus	0.00220 GPa	0.319 ksi	ISO 37

Chemical Properties	Metric	English	Comments
Styrene Content	30 %	30 %	

Descriptive Properties	Value	Comments
Physical Form	Crumb	

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