

Kuraray SEPTONÂ® S45 Soft Compound

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

Material Notes:

Description: SEPTONÂ® is a series of high performance thermoplastic rubbers developed by Kuraray Co. Ltd. using its unique isoprene technology. SEPTONÂ® resins are a series of 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.Formulation (parts by weight): SEPTONÂ® 4055 - 100, Polypropylene - 50, Process Oil - 120, Antioxidant - 0.3

Information provided by The Kuraray Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-SEPTON-S45-Soft-Compound.php

Physical Properties	Metric	English	Comments
Melt Flow	0.10 g/10 min	0.10 g/10 min	
	@Load 2.16 kg, Temperature 230 Â°C	@Load 4.76 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	
Tensile Strength, Ultimate	7.40 MPa	1070 psi	
Elongation at Break	850 %	850 %	
100% Modulus	0.000900 GPa	0.131 ksi	
300% Modulus	0.00160 GPa	0.232 ksi	
Compression Set	29 %	29 %	70Â°C, 22 hrs.
Tensile Set	5.0 %	5.0 %	100% at 10 min. (Permanent Set)

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