

Kuraray SEPTONÂ® S2007 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 Properties, Good Weatherability, Excellent Low Temperature Properties, Excellent Electrical Properties, Superior Heat Resistance, Excellent Chemical Resistance, Low Toxicity. SEPTONÂ® 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-S2007-Thermoplastic-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ISO 1183
Viscosity	17 cP @Temperature 30.0 Â°C	17 cP @Temperature 86.0 Â°F	10% wt, Toluene Solution
	70 cP @Temperature 30.0 Â°C	70 cP @Temperature 86.0 Â°F	15% wt, Toluene Solution
Melt Flow	2.4 g/10 min @Load 2.16 kg, Temperature 230 Â°C	2.4 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ISO 1133
	4.0 g/10 min @Load 10.0 kg, Temperature 200 Â°C	4.0 g/10 min @Load 22.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 48
Tensile Strength, Ultimate	16.7 MPa	2420 psi	ISO 37
Elongation at Break	580 %	580 %	
100% Modulus	0.00300 GPa	0.435 ksi	ISO 37

Chemical Properties	Metric	English	Comments
Styrene Content	30 %	30 %	

Descriptive Properties	Value	Comments
Physical Form	Pellet/Crumb	

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