

## Kuraray SEPTONÂ® S2063 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-S2063-Thermoplastic-Rubber.php](http://www.lookpolymers.com/polymer_Kuraray-SEPTON-S2063-Thermoplastic-Rubber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.880 g/cc	0.880 g/cc	ISO 1183
Viscosity	29 cP	29 cP	10% wt, Toluene Solution
	@Temperature 30.0 Å°C	@Temperature 86.0 Å°F	
	140 cP	140 cP	15% wt, Toluene Solution
	@Temperature 30.0 Å°C	@Temperature 86.0 Å°F	
Melt Flow	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 Å°C	@Load 4.76 lb, Temperature 446 Å°F	
	22 g/10 min	22 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	36	36	ISO 48
Tensile Strength, Ultimate	10.8 MPa	1570 psi	ISO 37
Elongation at Break	1200 %	1200 %	
100% Modulus	0.000400 GPa	0.0580 ksi	ISO 37

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+16 ohm-cm	3.00e+16 ohm-cm	measured 1 min. after applying DC 500 V; JIS K-6911
Dielectric Constant	2.31	2.31	JIS K-6911
	@Frequency 50 Hz	@Frequency 50 Hz	
	2.31	2.31	
	@Frequency 1000 Hz	@Frequency 1000 Hz	JIS K-6911
	2.31	2.31	JIS K-6911
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	JIS K-6911
	23.0 kV/mm	584 kV/in	Dielectric Breakdown Voltage, voltage rising rate = 1 kV/sec; JIS K-6911
Dielectric Strength			
Dissipation Factor	0.00020	0.00020	JIS K-6911
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Loss Index	0.00020	0.00020	10 <sup>&lt;sup&gt;3&lt;/sup&gt;</sup> Hz; JIS K-6911
	0.00080	0.00080	10 <sup>&lt;sup&gt;16&lt;/sup&gt;</sup> Hz; JIS K-6911

Chemical Properties	Metric	English	Comments
Styrene Content	13 %	13 %	

Descriptive Properties	Value	Comments
Physical Form	Pellet	

## Contact Songhan Plastic Technology Co.,Ltd.

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