

Kuraray SEPTONÂ® S2004 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-S2004-Thermoplastic-Rubber.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|--------------------------|
| Specific Gravity | 0.890 g/cc | 0.890 g/cc | ISO 1183 |
| Viscosity | 145 cP @Temperature 30.0 Â°C | 145 cP @Temperature 86.0 Â°F | 15% wt, Toluene Solution |
| Melt Flow | 5.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C | 5.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------|-----------|----------|
| Hardness, Shore A | 67 | 67 | ISO 48 |
| Tensile Strength, Ultimate | 16.0 MPa | 2320 psi | ISO 37 |
| Elongation at Break | 690 % | 690 % | |
| 100% Modulus | 0.00220 GPa | 0.319 ksi | ISO 37 |

| Chemical Properties | Metric | English | Comments |
|---------------------|--------|---------|----------|
| Styrene Content | 18 % | 18 % | |

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Physical Form | Pellet | |

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