

Kraton® D1112P (SIS) Linear Block Copolymer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

(SIS) styrene-isoprene-styrene block polymer. KRATON® Polymers require no premastication or vulcanization. They can be blended with thermoplastic polymers and significantly improve the impact qualities of the material, both at room and low temperature. This KRATON polymer meets FDA regulations as articles or as ingredients in articles intended for food contact. FDA clearances vary from one grade to another. For specific clearances, letters of certification will be provided on request. Applications: modified asphalts, thermoplastic and thermoset polymer modification, adhesives, sealants, coatings, sporting goods, film, and general elastomer compounding. Information provided by the manufacturer, Kraton® Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kraton-D1112P-SIS-Linear-Block-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	
Brookfield Viscosity	900 cP @Temperature 25.0 °C	900 cP @Temperature 77.0 °F	Toluene solution. Neat polymer concentration, 25%w.
Melt Flow	23 g/10 min	23 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25	25	10 seconds. Typical values on polymer compression molded at 150°C (300°F).
Tensile Strength, Ultimate	10.34 MPa	1500 psi	Tensile tester jaw separation 10 in/min (25.4 cm/min). Typical properties based on film cast from toluene solution.; ASTM D412
Elongation at Break	1400 %	1400 %	Tensile tester jaw separation 10 in/min (25.4 cm/min); ASTM D412
300% Modulus	0.000483 GPa	0.0701 ksi	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 - 1.00e+16 ohm-cm	1.00e+14 - 1.00e+16 ohm-cm	
Dielectric Strength	11.81 - 39.37 kV/mm	300.0 - 1000 kV/in	

Processing Properties	Metric	English	Comments
Processing Temperature	150 - 200 °C	302 - 392 °F	

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