

Kuraray HYBRARÂ® PS1 Thermoplastic Rubber-Polystyrene Blend

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber , Polystyrene (PS)

Material Notes:

Description: HYBRARÂ® is another in the series of new high performance thermoplastic rubbers developed by KURARAY using their unique isoprene technology. HYBRARÂ® is a special thermoplastic rubber which exhibits high vibration damping properties at room temperatures. Both hydrogenated and non-hydrogenated grades of HYBRARÂ® are available. In addition to the superior vibration damping properties, hydrogenated grades also exhibit excellent miscibility with polypropylene, and may be used to produce blends with excellent transparency, flexibility and mechanical properties. Blends of HYBRARÂ® and other polymers exhibit excellent vibration damping properties. Mixing Conditions: Twin screw extruder @ 200Â°C Molding Conditions: Injection Molding, Cylinder @ 200Â°C, mold @ 60Â°C Formulation (parts by weight): Polystyrene - 80, HYBRARÂ® 5127 - 20 Information provided by The Kuraray Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-HYBRAR-PS1-Thermoplastic-Rubber-Polystyrene-Blend.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	
Tensile Strength, Ultimate	43.0 MPa	6240 psi	
Elongation at Break	17 %	17 %	
Tensile Modulus	1.863 GPa	270.2 ksi	
Flexural Strength	22.0 MPa	3190 psi	
Flexural Modulus	1.667 GPa	241.8 ksi	

Descriptive Properties	Value	Comments
Loss Factor	0.068	measured by resonance method with a cantilever beam
Tan Delta	0.049	at 0Â°C, measured w/ Rheovibron @ 11 Hz
	0.094	at 40Â°C, measured w/ Rheovibron @ 110 Hz
	0.115	at 25Â°C, measured w/ Rheovibron @ 110 Hz

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