

Kuraray HYBRAR® PP1 Thermoplastic Rubber-Polypropylene Blend

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber , Polypropylene (PP)

Material Notes:

Description: HYBRAR® is another in the series of new high performance thermoplastic rubbers developed by KURARAY using their unique isoprene technology. HYBRAR® is a special thermoplastic rubber which exhibits high vibration damping properties at room temperatures. Both hydrogenated and non-hydrogenated grades of HYBRAR® 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 HYBRAR® and other polymers exhibit excellent vibration damping properties. Mixing Conditions: Twin Screw Extruder @ 200°C Molding Conditions: Injection Molding , Cylinder @ 210°C, Mold @ 40°C Formulation (parts by weight): PP (Homopolymer, MFR = 11.0) - 70, HYBRAR® 5127 - 30 Information provided by The Kuraray Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-HYBRAR-PP1-Thermoplastic-Rubber-Polypropylene-Blend.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	
Flexural Strength	19.0 MPa	2760 psi	
Flexural Modulus	0.608 GPa	88.2 ksi	
Izod Impact, Notched	3.63 J/cm	6.80 ft-lb/in	

Descriptive Properties	Value	Comments
Loss Factor	0.151	measured by resonance method w/ a cantilever beam
Tan Delta	0.047	at 0°C, measured w/ Rheovibron @ 11 Hz
	0.086	at 40°C, measured w/ Rheovibron @ 11 Hz
	0.162	at 25°C, measured w/ Rheovibron @ 11 Hz

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