

Kuraray HYBRARÂ® HD1 Thermoplastic Rubber-HDPE Blend

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber , Polyethylene (PE) , HDPE

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: Brabender Plasticorder @ 200Â°C Molding Conditions: Press Molding @ 210Â°C Formulation (parts by weight): High Density Polyethylene - 80, HYBRARÂ® 5127 - 20 Information provided by The Kuraray Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-HYBRAR-HD1-Thermoplastic-Rubber-HDPE-Blend.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	
Tensile Strength, Ultimate	13.0 MPa	1890 psi	
Tensile Strength, Yield	20.0 MPa	2900 psi	
Elongation at Break	910 %	910 %	
Tensile Modulus	0.343 GPa	49.7 ksi	

Descriptive Properties	Value	Comments
Loss Factor	0.121	at 40Â°C, measured w/ Rheovibron @ 110 Hz
Tan Delta	0.062	at 0Â°C, measured w/ Rheovibron @ 11 Hz
	0.14	at 25Â°C, measured w/ Rheovibron @ 110 Hz
	0.155	measured by resonance method with a cantilever beam

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