

Kuraray HYBRARÂ® HD2 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 - 85, HYBRARÂ® 5127 - 15 Information provided by The Kuraray Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-HYBRAR-HD2-Thermoplastic-Rubber-HDPE-Blend.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	
Tensile Strength, Ultimate	20.0 MPa	2900 psi	
Tensile Strength, Yield	28.0 MPa	4060 psi	
Elongation at Break	1170 %	1170 %	
Tensile Modulus	0.598 GPa	86.7 ksi	

Descriptive Properties	Value	Comments
Loss Factor	0.095	at 40Â°C, measured w/ Rheovibron @ 110 Hz
Tan Delta	0.059	at 0Â°C, measured w/ Rheovibron @ 11 Hz
	0.072	measured by resonance method with a cantilever beam
	0.093	at 25Â°C, measured w/ Rheovibron @ 110 Hz

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