

Sterigenics Raprex[®] R200D Branched High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Applications: Injection Molding and ExtrusionRAPREX[®] R200D is a high density polyethylene based resin that exhibits an excellent balance of melt processability and physical properties due to its unique branched structure. It is a thermoplastic and is fully recyclable. Due to its high molecular weight and shear sensitivity, RAPREX[®] R200D is used for injection molding. Because of its high melt strength, it is also used for films, extrusion coating and foam applications. Raprex[®] R200D contains a robust stabilization package providing excellent melt stability as well as long-term heat aging.Information provided by Sterigenics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sterigenics-Raprex-R200D-Branched-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Melt Index of Compound	1.1 g/10 min @Load 10.0 kg, Temperature 190 °C	1.1 g/10 min @Load 22.0 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.0 MPa	3050 psi	ASTM D638
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
	2.60 J/cm @Temperature -40.0 °C	4.87 ft-lb/in @Temperature -40.0 °F	Partial Break; ASTM D256

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

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