

Sterigenics Raprex[®] R-200 Branched High Density Polyethylene

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

Material Notes:

Applications: Injection Molding and ExtrusionRAPREX[®] R-200 is a high density polyethylene based resin that exhibits an excellent balance of melt processability and physical properties due to its unique branched structure. This structure is achieved through irradiation of the polymer. It is a thermoplastic and is fully recyclable. Due to its high molecular weight and shear sensitivity, RAPREX[®] R-200 is used for injection molding. Because of its high melt strength, it is also used for films, extrusion coating and foam applications. Raprex[®] R-200 contains a robust stabilization package providing excellent melt stability as well as long-term heat aging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sterigenics-Raprex-R-200-Branched-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
High Load Melt Index	9.1 g/10 min @Load 21.6 kg, Temperature 190 °C	9.1 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
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	21 %	21 %	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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