

Sterigenics Raprex[®] R100D Branched High Density Polyethylene

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

Material Notes:

Applications: ExtrusionRAPREX[®] R100D 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 resin and is fully recyclable. Due to its broad molecular weight distribution and melt strength, RAPREX[®] R100D is used for pipes, extruded profiles, sheet and large blow molded articles. Raprex[®] R100D 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-R100D-Branched-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D792
Melt Index of Compound	0.26 g/10 min @Load 10.0 kg, Temperature 190 °C	0.26 g/10 min @Load 22.0 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.9 MPa	2450 psi	ASTM D638
Tensile Strength, Yield	28.6 MPa	4150 psi	ASTM D638
Elongation at Break	43 %	43 %	ASTM D638
Elongation at Yield	14 %	14 %	ASTM D638
Flexural Modulus	0.869 GPa	126 ksi	ASTM D790
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	Partial Break; ASTM D256
	0.700 J/cm @Temperature -40.0 °C	1.31 ft-lb/in @Temperature -40.0 °F	ASTM D256

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

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