

Sterigenics Raprex[®] R-100 Branched High Density Polyethylene

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

Material Notes:

Applications: ExtrusionRAPREX[®] R-100 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 resin and is fully recyclable. Due to its broad molecular weight distribution and melt strength, RAPREX[®] R-100 is used for pipes, extruded profiles, sheet and large blow molded articles. Raprex[®] R-100 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-100-Branched-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D792
High Load Melt Index	2.5 g/10 min	2.5 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	
Melt Index of Compound	0.24 g/10 min	0.24 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 190 °C	@Load 22.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.8 MPa	5050 psi	ASTM D638
Tensile Strength, Yield	37.7 MPa	5470 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	14 %	14 %	ASTM D638
Flexural Modulus	1.03 GPa	149 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	Partial Break; ASTM D256
	1.10 J/cm	2.06 ft-lb/in	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM D256

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

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