

Sterigenics Raprex[®] R-300 Branched Linear Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Extrusion Grade

Material Notes:

Applications: Foam and Extrusion
 RAPREX[®] R-300 is a linear low 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 melt strength, RAPREX[®] R-300 is used in film applications where enhanced puncture and tear resistance is required. Because of its high melt strength, it is also used in the production of low density foams. Raprex[®] R-300 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-300-Branched-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D792
High Load Melt Index	12.7 g/10 min @Load 21.6 kg, Temperature 190 °C	12.7 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.24 g/10 min @Load 2.16 kg, Temperature 190 °C	0.24 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	0.24 g/10 min @Load 10.0 kg, Temperature 190 °C	0.24 g/10 min @Load 22.0 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.1 MPa	2630 psi	ASTM D638
Elongation at Break	340 %	340 %	ASTM D638
Flexural Modulus	0.290 GPa	42.1 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D256

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

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