LyondellBasell PetrotheneÂ® GA837091 Linear Medium Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE GA 837-091 is a broad molecular weight, medium density resin designed for extrusion and injection-blow molding. An antioxidant had been added to ensure thermal stability. Processing TechniquesGA 837-091, unlike other linear medium or linear low density resins, takes advantage of its broader molecular weight distribution to provide extrusion characteristics well suited to the extrusion and injection blow molding processes. Of particular note are both the melt strength and the smooth, melt fracture-free surface of the resulting parison. Physical PropertiesThis resin offers an intermediate level of stiffness rarely obtained without blending. The environmental stress crack resistance of GA 837-091 is outstanding. This product is from the former Equistar product line.

Order this product through the following link:
http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA837091-Linear-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/inÂ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	ASTM D1693
Melt Flow	0.70 g/10 min	0.70 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D628
Tensile Strength, Yield	17.9 MPa	2600 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F₅₀; ASTM D2240

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.31 @Frequency 1e+6 Hz	2.31 @Frequency 1e+6 Hz	ASTM D1531
Dissipation Factor	0.000060 @Frequency 1e+6 Hz	0.000060 @Frequency 1e+6 Hz	ASTM D1531

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