

LyondellBasell Petrothene[®] GA808093 Linear Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE GA 808-093 is a broad molecular weight, linear low density polyethylene resin designed for use as a wire and cable insulation. An antioxidant package is added to ensure thermal stability during processing. The resin also contains a metal deactivator to prevent degradation from copper while the cable is in service.**Processing Techniques**GA 808-093, like other thermoplastic polyolefin compounds, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for GA 808-093. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions, such as extruder type and size have an effect on the processing of thermoplastic resins. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA808093-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	10% Igepal [®] , F ₅₀ ; ASTM D1693
Melt Flow	0.70 g/10 min	0.70 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	ASTM D2240
Tensile Strength at Break	15.2 MPa	2200 psi	ASTM D638
Tensile Strength, Yield	11.7 MPa	1700 psi	ASTM D638
Elongation at Break	650 %	650 %	ASTM D638
1% Secant Modulus	345 MPa	50000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	F ₅₀ ; ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.29	2.29	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00010	0.00010	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Feed Temperature	154 - 163 Â°C	310 - 325 Â°F	
Zone 2	177 - 193 Â°C	350 - 380 Â°F	
Zone 3	193 - 210 Â°C	380 - 410 Â°F	
Zone 4-x	216 - 221 Â°C	420 - 430 Â°F	
Adapter Temperature	216 - 221 Â°C	420 - 430 Â°F	
Die Temperature	216 - 221 Â°C	420 - 430 Â°F	

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