

LyondellBasell Petrothene® GA808091 Linear Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

Applications PETROTHENE GA 808-091 is a broad molecular weight, linear low density polyethylene resin designed for use as a base resin in wire and cable jacketing. An antioxidant package is added to ensure thermal stability during processing. **Processing Techniques** GA 808-091, like other thermoplastic polyolefin resins, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for GA 808-091. 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. **Industry Specifications** GA 808-091 meets the requirements of the following: ASTM D1248, Type 1, Category 4, Class A, Grade E5. Federal LP390C, Type II, Class L, Category 4, Grade 4. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA808091-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	0.75 g/10 min	0.75 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
Dissipation Factor	0.000060	0.000060	ASTM D1531

Processing Properties	Metric	English	Comments
Feed Temperature	154 - 163 °C	310 - 325 °F	

Processing Properties	Metric	English	Comments
Zone 3	193 - 210 Â°C	380 - 410 Â°F	
Zone 4-x	204 - 218 Â°C	400 - 425 Â°F	
Adapter Temperature	204 - 218 Â°C	400 - 425 Â°F	
Die Temperature	204 - 218 Â°C	400 - 425 Â°F	

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