

## LyondellBasell Petrothene® GA837091 Medium Density Polyethylene (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Ethylene Vinyl Acetate

### Material Notes:

**Applications**PETROTHENE GA 837-091 is a broad molecular weight, medium density resin designed for use as a base resin in wire and cable jacketing. An antioxidant has been added to ensure thermal stability.**Processing Techniques**GA 837-091, like other thermoplastic polyolefin compounds, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for GA 837-091. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions, such as extruder type and size, affect the processing of thermoplastic resins. For exact recommendations, contact your Equistar sales representative.**Industry Specifications**GA 837-091 meets the requirements of the following: ASTM D1248, Type 11, Category 4, Class A, Grade E9. Federal LP390C, Type 11, Class M, Category 4, Grade 2. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-GA837091-Medium-Density-Polyethylene-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA837091-Medium-Density-Polyethylene-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in <sup>3</sup>	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	10% Igepal®; 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	28.3 MPa	4100 psi	ASTM D638
Tensile Strength, Yield	16.5 MPa	2400 psi	ASTM D638
Elongation at Break	790 %	790 %	ASTM D638

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

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

Processing Properties	Metric	English	Comments
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Feed Temperature Processing Properties	154 - 163 °C Metric	310 - 325 °F English	Comments
Zone 2	177 - 193 °C	350 - 380 °F	
Zone 3	193 - 210 °C	380 - 410 °F	
Zone 4-x	204 - 218 °C	400 - 425 °F	
Adapter Temperature	204 - 218 °C	400 - 425 °F	
Die Temperature	204 - 218 °C	400 - 425 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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