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Petrothene

GA837091

Medium Density Polyethylene Wire and Cable Grade Melt Index 0.75 Density 0.9345



Applications

Petrothene GA837091 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.

Regulatory Status GA837091, like other thermoplastic polyolefin compounds, can be extruded as wire a cable jacketing using a conventional extruder. Below are suggested extrusion conditions for GA837091 These conditions are intended as general guidelines only and are not optimum values, since manufacture conditions, such as extruder type and size, affect the processing of thermoplastic compounds. For exact recommendations, contact your Equistar sales representative.

Suggested General Extrusion Conditions Extruder Zone **Temperature Range Extruder Zone Temperature Range** Feed 310°-325°F (154°-163°C) Zone 4-X 400°-425°F (204°-218°C) 350°-380°F (177°-193°C) 400°-425°F (204°-218°C) Zone 2 Adapter 380°-410°F (193°-210°C) 400°-425°F (204°-218°C) Zone 3 Die

Industry Specifications

GA837091 meets the requirements of the following: ASTM D 1248, Type II, Category 4, Class A, Grade E9. Federal LP390C, Type II, Class M, Category 4, Grade 2.

Typical Properties

	Nominal		ASTM
Property	Value	Units	Test Method
Melt Index	0.75	g/10 min.	D 1238
Density	0.9345	g/cc	D 1505
Tensile Strength @ Break	4,100 (28.3)	psi (MPa)	D 638
Tensile Stress @ Yield	2,400 (16.5)	psi (MPa)	D 638
Elongation @ Break	790	%	D 638
Dielectric Constant @ 1 MHz	2.31		D 1531
Dissipation Factor @ 1 MHz	0.00006		D 1531
ESCR, 10% Igepal®	>1,000	hours	D 1693
Low Temperature Brittleness, F ₅₀	<-76	°C	D 2240

For further information on resins and compounds for wire and cable, contact your Equistar sales or technical service representative.

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