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 | | ASIM |
|--|--------------|-----------|-------------|
| 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% lgepal® | >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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