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Typical Properties

GA808091

Linear Low Density Polyethylene Wire and Cable Grade Melt Index 0.75 Density 0.920

Applications PETROTHENE GA808091 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
TechniquesGA808091, like other thermoplastic polyolefin resins, can be extruded as wire and cable insulation
using a conventional extruder. Below are suggested extrusion conditions for GA808091. 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.

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

IndustryGA808091 meets the requirements of the following: ASTM D 1248, Type I, Category 4, Class A, GradeSpecificationsE5. Federal LP390C, Type II, Class L, Category 4, Grade 4.

	Nominal		ASTM
Property	Value	Units	Test Method
Melt Index	0.75	g/10 min.	D 1238
Density	0.920	g/cc	D 1505
Tensile Strength @ Break	2,200 (15.9)	psi (MPa)	D 638
Tensile Stress @ Yield	1,700 (12.0)	psi (MPa)	D 638
Elongation @ Break	650	%	D 638
Flexural Modulus, 1% Secant	50,000 (345)	psi (MPa)	D 790
Hardness, Shore D	57		D 2240
Dielectric Constant @ 1 MHz	2.29		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 746

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

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