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## Petrothene®

## HR92953

Medium Density Polyethylene Wire and Cable Grade Melt Index 0.65 Density 0.945

Applications PETROTHENE HR92953 is a medium density polyethylene-based resin designed for use as jacketing for communications cable, including CATV and FOC. HR92953 has a nominal carbon black content of 2.6% and antioxidant has been added to ensure thermal stability during processing.

Processing Techniques

Industry

**Specifications** 

HR92953, like other thermoplastic polyolefin compounds, can be extruded as wire and cable jacketing using a conventional extruder. Below are suggested extrusion conditions for HR92953 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 recommendations, contact your Equistar sales representative.

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)

HR92953 meets the requirements of the following: ASTM D 1248, Type II, Category 4, Class C, Grades E10 and J5; Federal LP390C, Type III, Class M, Category 4, Grade 3.

Typical Properties	PropertyMelt IndexDensityTensile Strength @ BreakTensile Stress @ YieldElongation @ BreakLow Temperature Brittleness, $F_{50}$ Carbon Black ContentDielectric Constant @ 1 MHzDissipation Factor @ 1 MHzDielectric Strength (DC Voltage)Absorption CoefficientESCR, 10% lgepall®Hardness, Shore DLinear Coefficient of Thermal	Nominal Value 0.65 0.945 4,000 (27.6) 2,400 (16.6) 880 <-76 2.60 2.55 0.0005 550 450 >1,000 60	Units g/10 min. g/cc psi (MPa) psi (MPa) % °C % V/mil hours	ASTM Test Method D 1238 D 1505 D 638 D 638 D 638 D 2240 D 1531 D 1531 D 1531 D 149 D 3349 D 1693 D 2240		
	Linear Coefficient of Thermal		· / /00			
	Expansion @23°C 1.75x10 <sup>4</sup> in/in/°C D 696 ® Igepal is a registered trademark of the Rhône-Poulenc Co., Inc.					