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	Petrothene®				
	KR92717				
	High Density Polyethylene Wire and Cable Grade				
	Melt Index 0.50 Densi	ity 0.952			
Applications	PETROTHENE KR92717 is a high molecular weight, high density polyethylene-based compound designed for use in cable insulation and cable jacketing applications. This black compound contains additive packages to ensure UV and processing stability.				
Processing Techniques	KR92717, like other thermoplastic polyolefin compounds, can be extruded using a conventional extruder. Below are suggested extrusion conditions for KR92717. These conditions are intended as general guidelines only, and are not optimum values, because manufacturing conditions such as extruder type and size affect the processing of thermoplastic compounds. For further recommendations, please contact your Equistar sales or technical service representative.				
Suggested General Extrusion Conditions	<b>Extruder Zone</b> Feed Zone 2 Zone 3 Zone 4-X Adapter Die Melt Temperature	<b>Temperature Range</b> 300°- 325°F (149° - 163°C) 350°- 400°F (177° - 204°C) 375°- 400°F (204° - 232°C) 460°- 500°F (204° - 232°C) 475°- 500°F (246° - 260°C) 475°- 500°F (246° - 260°C) 475°- 500°F (246° - 260°C)			
Industry Specifications	KR92717 meets the requirements of the following: ASTM D 1248 Type III, Class B, Category 4 or 5, Grades E9, Ell and J5.				
Physical Properties	PhysicalTypical physical and electrical properties for KR92717 are provided in the table below. ForPropertiesinformation on resins and compounds for Wire and Cable, contact your Equistar sales or techn service representative.				
	<b>Property</b> Melt Index Density Low Temperature Brittleness, F <sub>50</sub> Tensile Strength @ Yield Tensile Strength @ Break Elongation @ Break Hardness, Shore D Dielectric Constant @ 1 KHz Dielectric Constant @ 0 1 MHz Dissipation Factor @ 1 KHz	Nominal Value 0.50 0.952 <-76 3,200 (22.1) 2,200 (15.2) 700 61 2.30 2.38 0.0002 0.0002	Units g/10 min. g/CM <sup>3</sup> °C psi (MPa) psi (MPa) %	ASTM Test Method D 1238 D 1505 D 746 D 638 D 638 D 638 D 2240 D 1531 D 1531 D 1531 D 1531 D 1531	

See Page 2 for tracking resistance information regarding Petrothene® KR92717

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Tracking Resistance KR92717 was tested for its resistance to tracking by ASTM D 2132 (Standard Test Method for Dustand-Fog Tracking and Corrosion Resistance of Electrical Insulating Materials) and ASTM D 2303 (Standard Test Method for Liquid Contaminant, Inclined-Plane Tracking and Erosion of Insulating Materials). The results are listed in the following table.

ASTM D 2132: Specimen	Time to Failure (h)	Type of Failure
Α	216.0	No failure
В	176.2	Erosion
С	216.0	No failure

ASTM D 2303:

The time-to-track was 1,028 minutes at 2.5 kV.