

LyondellBasell Petrothene[®] KR92717 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

Applications PETROTHENE KR 92717 is a high molecular weight, high density polyethylene-based compound designed for use in spacer cable insulation and cable jacketing applications. This black compound contains additive packages to ensure UV and processing stability. **Processing Techniques** KR 92717, like other thermoplastic polyolefin compounds, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for KR 92717. 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. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-KR92717-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D1505
Melt Flow	0.50 g/10 min	0.50 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength at Break	15.2 MPa	2200 psi	ASTM D638
Tensile Strength, Yield	22.1 MPa	3200 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F₅₀; ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.3	2.3	ASTM D1531
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	2.38	2.38	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00020	0.00020	ASTM D1531
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.00020	0.00020	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Feed Temperature	149 - 163 Â°C	300 - 325 Â°F	
Zone 2	177 - 204 Â°C	350 - 400 Â°F	
Zone 3	191 - 204 Â°C	375 - 400 Â°F	
Zone 4-x	238 - 260 Â°C	460 - 500 Â°F	
Adapter Temperature	246 - 260 Â°C	475 - 500 Â°F	
Die Temperature	246 - 260 Â°C	475 - 500 Â°F	
Melt Temperature	246 - 260 Â°C	475 - 500 Â°F	

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