Petrothene® KR92717

High Density (HMW) Polyethylene

LyondellBasell Industries

Message:

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.

General Information			
Features	Good Processing Stability Good UV Resistance High Molecular Weight		
Uses	Cable Jacketing Insulation Wire & Cable Applications		
Agency Ratings	ASTM D 1248, III, Class B, Cat. 4, Grade E11 ASTM D 1248, III, Class B, Cat. 4, Grade E9 ASTM D 1248, III, Class B, Cat. 4, Grade J5 ASTM D 1248, III, Class B, Cat. 5, Grade E11 ASTM D 1248, III, Class B, Cat. 5, Grade E9 ASTM D 1248, III, Class B, Cat. 5, Grade J5		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.952	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	22.1	MPa	
Break	15.2	MPa	
Tensile Elongation (Break)	700	%	ASTM D638
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -76.0	°C	ASTM D746
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant			ASTM D1531

1 kHz	2.30		
1 MHz	2.38		
Dissipation Factor			ASTM D1531
1 kHz	2.0E-4		
1 MHz	2.0E-4		
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Track Resistance			
2.5 kV	17.1	hr	ASTM D2303
Specimen A, No Failure	216.0	hr	ASTM D2132
Specimen B, Erosion	176.2	hr	ASTM D2132
Specimen C, No Failure	216.0	hr	ASTM D2132
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	149 to 163	°C	
Cylinder Zone 2 Temp.	177 to 204	°C	
Cylinder Zone 3 Temp.	191 to 204	°C	
Cylinder Zone 4 Temp.	238 to 260	°C	
Adapter Temperature	246 to 260	°C	
Melt Temperature	246 to 260	°C	
Die Temperature	246 to 260	°C	

Recommended distributors for this material

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