Petrothene® KR92828

High Density (HMW) Polyethylene

LyondellBasell Industries

Message:

PETROTHENE KR 92828 is a high molecular weight, high density polyethylene-based compound designed for use in jacketing, conduit or wire insulation. KR 92828 contains a carbon black content of 2.5%. Antioxidant has been added to ensure thermal stability during processing.

General Information			
Additive	Carbon black (3%)		
Features	Rigid, good High molecular weight Copolymer Compliance of Food Exposure Medium wide molecular weight distribution		
Uses	Cable sheath Wire and cable applications		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 5, Grade E10 FDA 21 CFR 177.1520 FED L-P-390C, Type II, Class H, Category 5, Grade 5		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.955	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.17	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal)	1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 1% Secant	531	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	19.3	MPa	ASTM D638
Fracture	31.7	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Flexural Modulus - 1% Secant	758	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-76.0	°C	ASTM D746

CLTE - Flow	1.5E-4	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+17	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.50		ASTM D150
Dissipation Factor (1 MHz)	2.0E-4		ASTM D150

Additional Information
The value listed as Dielectric Constant, ASTM D150, was tested in accordance with ASTM D1531.The value listed as Dissipation Factor, ASTM D150, was tested in accordance with ASTM D1531.Absorption Coefficient, ASTM D3349: 440

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	149 - 163	°C
Cylinder Zone 2 Temp.	177 - 204	°C
Cylinder Zone 3 Temp.	191 - 204	°C
Cylinder Zone 4 Temp.	238 - 260	°C
Adapter Temperature	246 - 260	°C
Melt Temperature	246 - 260	°C
Die Temperature	246 - 260	°C

Recommended distributors for this material

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