

LyondellBasell Petrothene® KR92828 High Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE 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.**Processing Techniques**KR 92561, like other thermoplastic polyolefin compounds, can be extruded as wire and cable insulation using a conventional extruder. Below are suggested extrusion conditions for KR 92561. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions, such as extruder type and size have an effect on 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-KR92828-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	Condition A - 10% Igepal®; ASTM D1693
Absorption Coefficient	440	440	ASTM D3349
Carbon Black Loading	2.6 %	2.6 %	
Melt Flow	0.15 g/10 min	0.15 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	31.7 MPa	4600 psi	ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
Elongation at Break	800 %	800 %	ASTM D638
Flexural Modulus	0.758 GPa	110 ksi	1% Secant; ASTM D780
1% Secant Modulus	531 MPa	77000 psi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	150 Âµm/m-Â°C @Temperature 20.0 Â°C	83.3 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM D696
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F ₅₀ ; ASTM D746

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+17 ohm-cm	2.00e+17 ohm-cm	ASTM D257
Dielectric Constant	2.5 @Frequency 1e+6 Hz	2.5 @Frequency 1e+6 Hz	ASTM D1531
Dielectric Strength	21.7 kV/mm	550 kV/in	ASTM D149
Dissipation Factor	0.00020 @Frequency 1e+6 Hz	0.00020 @Frequency 1e+6 Hz	ASTM D1531

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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