Petrothene® KR52828E

High Density Polyethylene

LyondellBasell Industries

Message:

Petrothene KR52828E is a multi-modal, broad molecular weight high density polyethylene-based compound designed for use in jacketing, conduit or wire insulation.
Petrothene KR52828E contains a robust additives package for thermal stabilisation and carbon black for UV stabilization.
This grade is not intended for use in medical or pharmaceutical applications.

General Information			
Additive	Carbon Black (2%) Heat Stabilizer		
Features	Bimodal Molecular Weight Distribution Good Electrical Properties Good Thermal Stability Good UV Resistance Heat Stabilized High Density High Elongation High ESCR (Stress Crack Resist.) Wide Molecular Weight Distribution		
Uses	Cable Jacketing Conduit Wire & Cable Applications		
Agency Ratings	ASTM D 1248, III, Class C, Cat. 5 Grade J4		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.956	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	
190°C/5.0 kg	1.1	g/10 min	
Environmental Stress-Cracking Resistance (F0)	> 2000	hr	ASTM D1693
Carbon Black Content	2.3	%	ISO 6964
Moisture Content [1]	0.050	%	
Oxidation Induction Time (200°C)	> 30	min	ISO 11357-6
Hardness	**Nominal Value**	**Unit**	**Test Method**

Shore Hardness (Shore D)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	900	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	23.0	MPa	ISO 527-2/50
Tensile Elongation (Break)	700	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	130	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257, IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			
1.	VP608B		

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