

Petrothene® LR52800E

High Density Polyethylene
LyondellBasell Industries

Message:

Petrothene LR52800E is a multi-modal, broad molecular weight high density polyethylene based compound designed for use in jacketing, conduit or wire insulation.
Petrothene LR52800E contains a robust additives package for thermal stabilisation.
This grade is not intended for use in medical or pharmaceutical applications.

General Information			
Features	Good Thermal Stability		
	High Density		
	Wide Molecular Weight Distribution		
Uses	Conduit		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 5, Grade J4		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	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
Moisture Content	0.050	%	Internal Method
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, 1.00 mm)	900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	23.0	MPa	ISO 527-2/1/50
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+17	ohms · cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1

Extrusion	Nominal Value	Unit
Melt Temperature	190 to 230	°C

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