

Petrothene® PR92735

Linear Low Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE PR92735 is a high molecular weight linear low density-based compound designed for cable jacketing. This resin contains a nominal carbon black content of 2.6% and antioxidant has been added to ensure thermal stability during processing. PR92735 also contains a processing aid.

General Information			
Additive	Antioxidant		
	Carbon Black (3%)		
Features	Antioxidant		
	High Molecular Weight		
Uses	Cable Jacketing		
	Wire & Cable Applications		
Agency Ratings	ASTM D 1248, I, Class C, Cat. 4, Grade E5		
	ASTM D 1248, I, Class C, Cat. 4, Grade J1		
	ASTM D 1248, I, Class C, Cat. 4, Grade J3		
	FED L-P-390C, Type III, Class L, Category 4, Grade 2		
	FED L-P-390C, Type III, Class L, Category 4, Grade 2		
	FED L-P-390C, Type III, Class L, Category 4, Grade 2		
	REA PE-200, Appendix E		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.72	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal)	> 1000	hr	ASTM D1693
Absorption Coefficient	440		ASTM D3349
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant	248	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	11.0	MPa	
Break	16.6	MPa	

Tensile Elongation (Break)	650	%	ASTM D638
Flexural Modulus - 1% Secant	366	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
CLTE - Flow (23°C)	2.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.50		ASTM D1531
Dissipation Factor (1 MHz)	4.0E-4		ASTM D1531
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	154 to 163	°C	
Cylinder Zone 2 Temp.	177 to 193	°C	
Cylinder Zone 3 Temp.	193 to 210	°C	
Cylinder Zone 4 Temp.	204 to 218	°C	
Adapter Temperature	204 to 218	°C	
Die Temperature	204 to 218	°C	

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