

Petrothene® HR92953

Medium Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE HR92953 is a medium density polyethylene-based resin designed for use as jacketing for communications cable, including CATV and FOC. HR92953 has a nominal carbon black content of 2.6% and antioxidant has been added to ensure thermal stability during processing.

General Information			
Additive	Antioxidant		
	Carbon Black (3%)		
Features	Antioxidant		
Uses	Cable Jacketing		
	Telecommunications		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	ASTM D 1248, II, Class C, Cat. 4, Grade E10		
	ASTM D 1248, II, Class C, Cat. 4, Grade J5		
	FED L-P-390C, Type III, Class M, Category 4, Grade 3		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.65	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal)	> 1000	hr	ASTM D1693
Absorption Coefficient	450		ASTM D3349
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	16.5	MPa	
Break	27.6	MPa	
Tensile Elongation (Break)	880	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
CLTE - Flow (23°C)	1.8E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method


Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.55		ASTM D1531
Dissipation Factor (1 MHz)	5.0E-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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