

Petrothene® NA951080

Low Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE NA 951080 is designed for use as a base resin for compounding material including gas-injected or chemically expanded insulation. NA 951080 is a natural, low density, medium molecular weight polyethylene resin containing no additives.

General Information			
Features	Medium Molecular Weight		
Uses	Wire & Cable Applications		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3, Grade E3		
	FED L-P-390C, Type II, Class L, Category 3, Grade 1		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	10.3	MPa	
Break	11.7	MPa	
Tensile Elongation (Break)	600	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.29		ASTM D1531
Dissipation Factor (1 MHz)	8.0E-5		ASTM D1531
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	138 to 149	°C	
Cylinder Zone 2 Temp.	149 to 163	°C	
Cylinder Zone 3 Temp.	191 to 204	°C	
Cylinder Zone 4 Temp.	204 to 218	°C	
Adapter Temperature	204 to 218	°C	
Melt Temperature	204 to 218	°C	
Die Temperature	204 to 218	°C	

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Recommended distributors for this material

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