

Petrothene® NA217080

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 217-080 is a natural low density polyethylene resin formulated for use as primary insulation for coaxial and control cable applications. NA 217-080 has also been designed for use as a base resin for compounding materials including gas-injected or chemically expanded insulation.

General Information			
Uses	Insulation		
	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	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.6	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	10.3	MPa	
Break	12.4	MPa	
Tensile Elongation (Break)	550	%	ASTM D638
Flexural Modulus - 1% Secant	276	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.28		ASTM D1531
Dissipation Factor			ASTM D1531
1 MHz	4.0E-5		
2.00 GHz	4.0E-5		
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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