

# Petrothene® GA808091

Linear Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE GA808091 is a broad molecular weight, linear low density polyethylene resin designed for use as a base resin in wire and cable jacketing. An antioxidant package is added to ensure thermal stability during processing.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Med.-Wide Molecular Weight Distrib.		
Uses	Cable Jacketing		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4, Grade E5		
	FED L-P-390C, Type II, Class L, Category 4, Grade 4		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	12.0	MPa	
Break	15.9	MPa	
Tensile Elongation (Break)	650	%	ASTM D638
Flexural Modulus - 1% Secant	345	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)	2.29		ASTM D1531
Dissipation Factor (1 MHz)	6.0E-5		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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