

# Petrothene® GA808093

Linear Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE GA 808-093 is a broad molecular weight, linear low density polyethylene resin designed for use as wire and cable insulation. An antioxidant package has been added to ensure thermal stability during processing. The resin also contains a metal deactivator to prevent degradation from copper while the cable is in service.

General Information			
Additive	Metal deactivator		
	Antioxidation		
Features	Antioxidation		
	Medium wide molecular weight distribution		
Uses	Wire and cable applications		
	Insulating material		
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	Particle		
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)	0.70	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	11.7	MPa	ASTM D638
Fracture	15.2	MPa	ASTM D638
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 D150

Dissipation Factor (1 MHz)	1.0E-4	ASTM D150
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#### Additional Information

The value listed as Dielectric Constant, ASTM D150, was tested in accordance with ASTM D1531. The value listed as Dissipation Factor, ASTM D150, was tested in accordance with ASTM D1531.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	154 - 163	°C
Cylinder Zone 2 Temp.	177 - 193	°C
Cylinder Zone 3 Temp.	193 - 210	°C
Cylinder Zone 4 Temp.	216 - 221	°C
Adapter Temperature	216 - 221	°C
Die Temperature	216 - 221	°C

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#### Recommended distributors for this material


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