# Petrothene® GA818092

### Linear Low Density Polyethylene

#### LyondellBasell Industries

#### Message:

Petrothene GA818092 offers high environmental stress crack resistance characteristics of linear low density polyethylene with the processing properties needed for profile extrusion and blow molding applications. The broad molecular weight distribution of GA818092 provides good melt strength with a significantly reduced tendency to melt fracture. GA818092 is selected by customers for use in drip irrigation tubing, profile extrusion, hoses, squeeze tubes and bottles and blow molding.

General Information			
Features	High ESCR (Stress Cracking Resistance) Wide molecular weight distribution		
	Good melt strength		
	Compliance of Food Exposure		
Uses	Blow molding applications		
	Pipe		
	Pipe fittings		
	Bottle		
	Profile		
Agency Ratings	FDA 21 CFR 175.1520		
Processing Method	Blow molding		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	0.75	g/10 min	ASTM D1238
kg) Environmental Stress-Cracking Resistance	0.75	g/10 min	ASTM D1238
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50)	0.75 > 1000	g/10 min hr	ASTM D1238 ASTM D1693A
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness	0.75 > 1000 Nominal Value	g/10 min hr Unit	ASTM D1238 ASTM D1693A Test Method
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness Durometer Hardness (Shore D)	0.75 > 1000 Nominal Value 50	g/10 min hr Unit	ASTM D1238 ASTM D1693A Test Method ASTM D2240
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness Durometer Hardness (Shore D) Mechanical	0.75 > 1000 Nominal Value 50 Nominal Value	g/10 min hr Unit Unit	ASTM D1238 ASTM D1693A Test Method ASTM D2240 Test Method
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness Durometer Hardness (Shore D) Mechanical Tensile Strength	0.75 > 1000 Nominal Value 50 Nominal Value	g/10 min hr Unit Unit	ASTM D1238 ASTM D1693A Test Method ASTM D2240 Test Method ASTM D638
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness Durometer Hardness (Shore D) Mechanical Tensile Strength Yield	0.75 > 1000 Nominal Value 50 Nominal Value 12.1	g/10 min hr Unit Unit MPa	ASTM D1238 ASTM D1693A Test Method ASTM D2240 Test Method ASTM D638 ASTM D638
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness Durometer Hardness (Shore D) Mechanical Tensile Strength Yield Fracture	0.75 > 1000 Nominal Value 50 Nominal Value 12.1 16.1	g/10 min hr Unit Unit MPa MPa	ASTM D1238 ASTM D1693A Test Method ASTM D2240 Test Method ASTM D638 ASTM D638 ASTM D638
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness Durometer Hardness (Shore D) Mechanical Tensile Strength Yield Fracture Tensile Elongation	0.75 > 1000 Nominal Value 50 Nominal Value 12.1 16.1	g/10 min hr Unit Unit MPa MPa	ASTM D1238 ASTM D1693A Test Method ASTM D2240 Test Method ASTM D638 ASTM D638 ASTM D638
kg) Environmental Stress-Cracking Resistance (100% Igepal CO-630, F50) Hardness Durometer Hardness (Shore D) Mechanical Tensile Strength Yield Fracture Tensile Elongation Yield	0.75 > 1000 Nominal Value 50 Nominal Value 12.1 16.1 12	g/10 min hr Unit Unit MPa MPa MPa	ASTM D1238 ASTM D1693A Test Method ASTM D2240 Test Method ASTM D638 ASTM D638 ASTM D638 ASTM D638 ASTM D638
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