

## LyondellBasell Petrothene® GA818073 Linear Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Extrusion Grade

### Material Notes:

**Applications**PETROTHENE GA 818-073 offers the high environmental stress crack resistance characteristics of linear low density polyethylene with the processing properties needed for blowmolding and extrusion applications. The broad molecular weight distribution of GA 818-073 combines good melt strength with a significantly reduced tendency to melt fracture, two drawbacks common to conventional fractional melt index LLDPE resins. Applications for this resin include beverage and drip irrigation tubing, squeeze tubes and bottles for pharmaceutical and personal care product packaging, drum liners, highway traffic channellizers and other large, blow molded parts.  
**Processing Techniques**Processing conditions can only be recommended when the type of equipment and end use applications are known. For further suggestions, please contact your Equistar sales representative. **Regulatory Status**GA 818-073 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-GA818073-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA818073-Linear-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.9205 g/cc	0.03326 lb/in <sup>3</sup>	ASTM D1505
ESCR, Bottle	>= 1000 hour	>= 1000 hour	ASTM D2561
Melt Flow	0.75 g/10 min	0.75 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	ASTM D2240
Tensile Strength at Break	15.0 MPa	2170 psi	Type IV Specimen; ASTM D638
Elongation at Break	>= 700 %	>= 700 %	Type IV Specimen; ASTM D638
Flexural Modulus	0.276 GPa	40.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	48.0 Â°C	118 Â°F	ASTM D648
Vicat Softening Point	88.0 Â°C	190 Â°F	ASTM D1525
Brittleness Temperature	<= -42.0 Â°C	<= -43.6 Â°F	F<sub>50</sub>, Injection molded specimen; ASTM D746

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