

## LyondellBasell Petrothene® NA951080 Low Density Polyethylene

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

### Material Notes:

**Applications** PETROTHENE NA 951-080 is designed for use as a base resin for compounding material including gas-injected or chemically expanded insulation. NA 951-080 is a natural, low density, medium molecular weight polyethylene resin containing no additives.

**Processing Techniques** NA 951-080 has been designed to provide excellent processability over a wide range of extrusion conditions, including the low melt temperature requirements of specialty applications like crosslinkable or foam extrusion. Specific recommendations for processing NA 951-080 can be made only when the applications, end use requirements and type of processing equipment are known. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-NA951080-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA951080-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	2.2 g/10 min	2.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	11.7 MPa	1700 psi	ASTM D638
Tensile Strength, Yield	10.3 MPa	1500 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 Â°C	194 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	F <sub>50</sub> ; ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.27	2.27	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.000060	0.000060	ASTM D1531
	@Frequency 2.00e+9 Hz	@Frequency 2.00e+9 Hz	
	0.000080	0.000080	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Processing Properties	Metric149 Â°C	English100 Â°F	Comments
Zone 2	149 - 163 Â°C	300 - 325 Â°F	
Zone 3	191 - 204 Â°C	375 - 400 Â°F	
Zone 4-x	204 - 218 Â°C	400 - 425 Â°F	
Adapter Temperature	204 - 218 Â°C	400 - 425 Â°F	
Die Temperature	204 - 218 Â°C	400 - 425 Â°F	
Melt Temperature	204 - 218 Â°C	400 - 425 Â°F	

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)  
Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)  
Tel : +86 021-51131842  
Mobile : +86 13061808058  
Skype : lookpolymers  
Address : United North Road 215,Fengxian District, Shanghai City,China