

Petrothene® NA814000

Low Density Polyethylene
LyondellBasell Industries

Message:

PETROTHENE NA 814-000 is a low density homopolymer resin specifically developed for a wide variety of blow molding applications. This resin exhibits excellent gloss, an excellent balance of physical properties and good processability.

General Information			
Features	Highlight		
	Homopolymer		
	Workability, good		
	Compliance of Food Exposure		
Uses	Blow molding applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	11.7	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	228	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	40.0	°C	ASTM D648
Brittleness Temperature ¹	< -76.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Mold Temperature	177 - 260	°C	
NOTE			
1.	F50		

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