

Petrothene® NA831000

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA831000 resin exhibits high stress crack resistance and low temperature brittleness. Typical applications include housewares, containers and industrial parts.

General Information			
Features	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
Uses	Containers		
	Household Goods		
	Industrial Applications		
Agency Ratings	FDA 21 CFR 177.1520		
	FDA 21 CFR 177.1520(c) 2.1		
Forms	Pellets		
Processing Method	Injection 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)	9.0	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			ASTM D638
Yield	8.96	MPa	
Break	8.48	MPa	
Tensile Elongation (Yield)	14	%	ASTM D638
Flexural Modulus	255	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	-65.0	°C	ASTM D746
Vicat Softening Temperature	85.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	163	°C	
Middle Temperature	177	°C	
Front Temperature	177	°C	

Nozzle Temperature	177	°C
NOTE		
1.	F50	

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