Technical Data Sheet

Petrothene NA270001

Low Density Polyethylene

Product Description

Petrothene NA270001 is a high flow, low density polyethylene resin selected by customers for use in the injection molding of caps, closures, other specialty applications or cast film. NA270001 is also used in wire & cable applications. NA270001 exhibit an excellent balance of toughness, softness, dimensional stability and processability.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA270001 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Carpet Backing; Wire & Cable
Market	Rigid Packaging; Wire & Cable
Processing Method	Injection Molding; Wire & Cable

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	70	g/10 min	70	g/10 min	ASTM D1238
Mechanical					
Flexural Modulus					
(1% Secant)	27000	psi	186	MPa	ASTM D790
(2% Secant)	24000	psi	165	MPa	ASTM D790
Tensile Strength at Break	1120	psi	8	MPa	ASTM D638
Tensile Strength at Yield	1650	psi	11	MPa	ASTM D638
Tensile Elongation at Yield	11	%	11	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	47		47		ASTM D2240

Manufacturer website: https://www.lyondellbasell.com/en/

Notes

Tensile properties were run with a crosshead speed of 20 inches/min or 500 mm/min.

Conditions of Flexural Modulus values are: 0.5 inches/min or 12.5 mm/min.

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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