Technical Data Sheet

Petrothene NA202000

Low Density Polyethylene

Product Description

Petrothene NA202000 resin exhibits high processability, low warpage and a combination of softness and toughness desired for LDPE molding. Typical applications include automotive items, toys, closures, lids and wire & cable.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA202000 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial
Availability	North America
Application	Automotive Parts; Caps & Closures; Sports, Leisure & Toys; 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)	22	g/10 min	22	g/10 min	ASTM D1238
Density, (23 °C)	0.915	g/cm³	0.915	g/cm³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	24700	psi	170	MPa	ASTM D790
Tensile Stress at Break	1450	psi	10.0	MPa	ASTM D638
Tensile Stress at Yield	1250	psi	8.6	MPa	ASTM D638
Tensile Elongation at Break	550	%	550	%	ASTM D638
Tensile Elongation at Yield	23	%	23	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	40		40		ASTM D2240
Thermal					
Low Temperature Brittleness, F_{50}	-53	°F	-47	°C	ASTM D746

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

Notes

Mechanical tensile properties were run on a Type IV specimen.

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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