



Adflex Q 302 B

Advanced Polyolefin

Product Description

Adflex Q 302 B is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary *Catalloy* process technology. It is an innovative material that resists gas fading and brings a warm and sensual feel, creating a truly unique sensation.

Part of a family of polymers with a soft, velvety texture, Adflex Q 302 B resin enables packagers to give their products a distinct edge over conventional plastics. Bottles blow molded from Adflex Q 302 B resin conveys an upscale, quality image that enhances point of purchase appeal. The unique texture is also ideal for applications requiring a no-slip surface, such as shower soaps and lotions.

For regulatory compliance information, see the Adflex Q 302 B Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Blow Molding, Injection Blow Molding
Features	Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), Gas-fading Resistant, High Heat Resistance, Good Puncture Resistance, Recyclable Material, High Strength, Good Surface Finish
Typical Customer Applications	Blow Moulding Applications, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.88	g/cm ³
Melt flow rate (MFR) (230 °C/ 2.16 kg)	ISO 1133	0.9	g/10 min
Mechanical			
Tensile Stress at Break (°C)	ISO 527-1, -2	9.5	MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	8.5	MPa
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	37	%
Flexural modulus (23 °C)	ISO 178	350	MPa
Impact			
Notched izod impact strength (23 °C, Type 1, Notch A)	ISO 180	47	kJ/m ²
Hardness			
Shore hardness D	ISO 868/ASTM D 2240	47	

Note: 15 seconds

Notes

Typical properties; not to be construed as specifications.