

Technical Data Sheet



Polytrope CB 508-31

Ethylene Elastomer
LyondellBasell Industries
Engineering Plastics

Product Description

POLYTROPE® CB 508-31 is an Injection Molding Reactor Grade Olefinic Thermoplastic Elastomer (TPO). Ethylene Propylene Alloy. This product has excellent low temperature impact properties and flow characteristics suitable for molding large part.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Good Flow • Low Temperature Impact Resistance
Appearance	• Colors Available
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.892	0.890 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2470 psi	17.0 MPa	ASTM D638
Tensile Elongation (Break)	650 %	650 %	ASTM D638
Flexural Modulus	79800 psi	550 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	
Gardner Impact (-22°F (-30°C))	320 in·lb	36.2 J	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A)	95	95	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	131 °F	55.0 °C	ASTM D648
Brittleness Temperature	-58.0 °F	-50.0 °C	ASTM D746

Notes

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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