

Technical Data Sheet



Polytrope TPP 518

Thermoplastic Polyolefin Elastomer
LyondellBasell Industries
Engineering Plastics

Product Description

TPO High Modulus 13% Talc

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Talc, 13% Filler by Weight
Automotive Specifications	• CHRYSLER MS-DC-256 Type B CPN3413 • CHRYSLER MS-DC-256 Type B CPN3414 Color: 3120 Black • FORD ESB-M4D492-A1 Color: Black • GM GMP/E/P.020 Color: Black • GM GMP/E/P.050 • NISSAN NES M8012 PP(T15) IC3-U-1
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.00	1.00 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	3050 psi	21.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	300 %	300 %	ASTM D638
Flexural Modulus ²	189000 psi	1300 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	11 ft.-lb/in	600 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	194 °F	90.0 °C	ASTM D648
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	13 %	13 %	ASTM D5630

Notes

¹ 2.0 in/min (50 mm/min)

² 0.051 in/min (1.3 mm/min)

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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