

Technical Data Sheet



Alcryn 2170 BK

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Abrasion Resistant • Chemical Resistant	• Good Tear Strength • High Flow	• High Friction
Uses	• Automotive Interior Parts • Cable Jacketing • Gaskets	• Handles • Hose • Seals	• Tubing • Weatherstripping • Wire Jacketing
Automotive Specifications	• GM GMP.TECEA.004	• GM GMW16088P-TPZ(NBR +PVC) Type 2	
Appearance	• Black		
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.21	1.21 g/cm³	ASTM D792
--	1.21 g/cm³	1.21 g/cm³	ISO 1183

Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			
100% Strain	435 psi	3.00 MPa	ASTM D412
100% Strain, 0.0748 in (1.90 mm)	435 psi	3.00 MPa	ISO 37
Tensile Strength			
Break, 0.0748 in (1.90 mm)	1810 psi	12.5 MPa	ASTM D412
Break, 0.0748 in (1.90 mm)	1710 psi	11.8 MPa	ISO 37
Tensile Elongation			
Break	570 %	570 %	ASTM D412
Break, 0.0748 in (1.90 mm)	570 %	570 %	ISO 37
Tear Strength ¹ (75°F (24°C))	325 lbf/in	57.0 kN/m	ASTM D624
Compression Set			ASTM D395
75°F (24°C), 22 hr	19 %	19 %	ISO 815
212°F (100°C), 22 hr	89 %	89 %	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 0.0748 in (1.90 mm), Compression Molded	69	69	ISO 868

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-72.4 °F	-58.0 °C	ASTM D746 ISO 812

Technical Data Sheet**Alcryn 2170 BK**

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

Additional Information

The value listed as Specific Gravity, ASTM D792, was tested in accordance with ASTM D471.
The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.
The value listed as Shore Hardness, ISO 868, was tested in accordance with ISO 48.
Permanent Set (Tension), ASTM D412, Compression Molding, 1.9 mm: 15%
100% Modulus, ASTM D412, ISO 37, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 146%
Tensile Strength, ASTM D412, ISO 37, DIN 53504, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 122%
Elongation At Break, ASTM D412, ISO 37, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 96%
Hardness, ISO 48, Physical Retention After 7 Days at 125°C, Shore A, Compression Molding, 1.9 mm: 69
Viscosity, ASTM D3835, 300 s-1 at 190°C, Compression Molding, 1.9 mm: 275 Pa*s
Typical Processing Temperature, Compression Molding, 1.9 mm: 177° C
Volume Change, ASTM D471, ISO 1817, After 7 days, 100°C, Water, Compression Molding, 1.9 mm: 19%
Volume Change, After 7 days, ASTM D471, ISO 1817, 24°C, Fuel B, Compression Molding, 1.9 mm: 17%
Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, ASTM #1 Oil, Compression Molding, 1.9 mm: -16%
Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, IRM 903 Oil #3, Compression Molding, 1.9 mm: 6%
Clash-Berg Stiffness Temperature, ASTM D1043, 10000 psi, Compression Molding, 1.9 mm: -38° C

Notes

¹ Die C

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/>.

© LyondellBasell Industries Holdings, B.V. 2024

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.