

Technical Data Sheet



Alcryn 4670 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• UV Stabilizer		
Features	• Good Weather Resistance • High Heat Resistance • Medium Flow	• Noise Damping • Oil Resistant • Ozone Resistant	• UV Resistant • Vibration Damping
Uses	• Cable Jacketing • Engineering Parts • Fabrics • Gaskets	• Handles • Hose • Seals • Sheet	• Tubing • Weatherstripping • Wire Jacketing
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Blow Molding • Calendering	• Compression Molding • Extrusion	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.25	1.25 g/cm ³	ASTM D792
--	1.25 g/cm ³	1.25 g/cm ³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			ASTM D638
0.0750 in (1.91 mm), Compression Molded	570 psi	3.93 MPa	ISO 527-1
Tensile Strength			ASTM D638
Yield, 0.0750 in (1.91 mm), Compression Molded	1280 psi	8.83 MPa	ISO 527-2
Tensile Elongation			ASTM D638
Break, 0.0750 in (1.91 mm), Compression Molded	440 %	440 %	ISO 527-2
Taber Abrasion Resistance			ASTM D1044
1000 Cycles, 1000 g, CS-17 Wheel	4.00 mg	4.00 mg	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set	9 %	9 %	ASTM D412
Tear Strength ¹ (75°F (24°C))	220 lbf/in	38.5 kN/m	ASTM D624
Compression Set			ASTM D395B
75°F (24°C), 22 hr	21 %	21 %	ISO 815
212°F (100°C), 22 hr	74 %	74 %	
Clash-Berg Modulus (-4°F (-20°C))	10000 psi	68.9 MPa	ASTM D1043
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 0.0750 in (1.91 mm), Compression Molded	70	70	
IRHD Hardness	70	70	ISO 48
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-76.0 °F	-60.0 °C	ASTM D746 ISO 974

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Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Change in Shore Hardness in Air 257°F (125°C), 168 hr	64	64	ISO 188
Change in Ultimate Elongation 257°F (125°C), 168 hr	380 %	380 %	ASTM D471
Change in Durometer Hardness 257°F (125°C), 168 hr	64	64	ASTM D471
Change in Volume 75°F (24°C), 168 hr, in Reference Fuel B	16 %	16 %	ASTM D471
212°F (100°C), 168 hr, in ASTM #1 Oil	-17 %	-17 %	
212°F (100°C), 168 hr, in ASTM #3 Oil	17 %	17 %	
212°F (100°C), 168 hr, in Water	11 %	11 %	

Additional Information

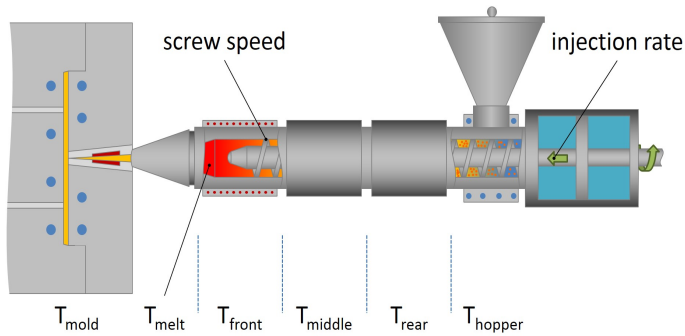
The value listed as Density-Specific Gravity, ASTM D792, was tested in accordance with ASTM D471.
Torsion Modulus, ASTM D1043, 75°F: 350psi
Aging Tensile Strength, ASTM D573, 7 days, 257°F: 1380psi
Torsion Modulus, ASTM D1043, -4°F: 4000psi
Aging 100% Modulus, ASTM D573, 7 days, 257 °F: 730psi
Aging Elongation At Break, ASTM D573 and ISO 188: 380%
Fluid Resistance 7 Days in water, ISO 1817, at 212 °F: 11%
Fluid Resistance 7 Days in ASTM Oil no. 1, ISO 1817, at 212 °F: -17%
Fluid Resistance 7 Days in IRM 903 Oil no. 3, ISO 1817, at 212 °F: 17%
Fluid Resistance 7 Days in ASTM Ref. Fuel no. B, ISO 1817, at 75 °F: 16%
Rheological Viscosity, ASTM D3835, 1/300s at 374°F: 500Pa-s

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Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	350 °F	177 °C

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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/>.

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