HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Technical Data Sheet

Alcryn 4670 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
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
Agency Ratings	• EU 2002/96/EC (WEEE)		
RoHS Compliance	• RoHS Compliant		
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/cm³	ASTM D792
--	1.25 g/cm³	1.25 g/cm³	ISO 1183
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus			ASTM D638 ISO 527-1
0.0750 In (1.91 Mm), Compression Molded	570 psi	3.93 MPa	
Tensile Strength			ASTM D638 ISO 527-2
Yield, 0.0750 In (1.91 Mm), Compression Molded	1280 psi	8.83 MPa	
Tensile Elongation			ASTM D638 ISO 527-2
Break, 0.0750 In (1.91 Mm), Compression Molded	440 %	440 %	
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 ISO 815
75°f (24°c), 22 Hr	21 %	21 %	
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			ISO 188
257°f (125°c), 168 Hr	64	64	
Change in Ultimate Elongation			ASTM D471
257°f (125°c), 168 Hr	380 %	380 %	
Change in Durometer Hardness			ASTM D471
257°f (125°c), 168 Hr	64	64	
Change in Volume			ASTM D471
75°f (24°c), 168 Hr, In Reference Fuel B	16 %	16 %	
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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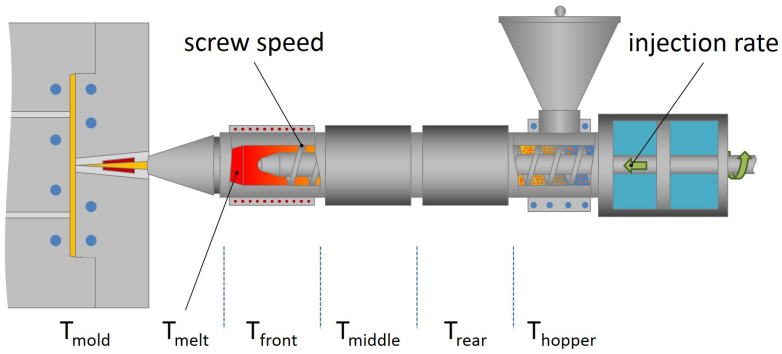

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	350 °F	177 °C

Notes

[1] Die C

Notes

These are typical property values not to be construed as specification limits.