

Technical Data Sheet



Alcryn 2070 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Fast Molding Cycle • General Purpose • High Flow	• High Heat Resistance • Noise Damping • Oil Resistant	• Ozone Resistant • Recyclable Material • Vibration Damping
Uses	• Cable Jacketing • Coating Applications • Fabric Coatings • Flexible Grips • Gaskets	• General Purpose • Handles • Hose • Overmolding • Profiles	• Seals • Tubing • Weatherstripping • Wire & Cable Applications
Automotive Specifications	• GM GMP.TECEA.006		
UL File NumberUSA	• E51193		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Vacuum Forming	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.20	1.20 g/cm ³	ASTM D471
--	1.20 g/cm ³	1.20 g/cm ³	ISO 2781
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Taber Abrasion Resistance			ASTM D1044
1000 Cycles, 1000 g, CS-17 Wheel	9.00 mg	9.00 mg	
Torsion Modulus ¹			ASTM D1043
-4°F (-20°C), 74.8 mil (1.90 mm)	1233 psi	8.50 MPa	
75°F (24°C), 74.8 mil (1.90 mm)	319 psi	2.20 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set ²	9 %	9 %	ASTM D412
Tensile Stress			
100% Strain, 0.0748 in (1.90 mm) ¹	580 psi	4.00 MPa	ASTM D412 ISO 37
100% Strain, 257°F (125°C), 0.0748 in (1.90 mm) ³	508 psi	3.50 MPa	ASTM D573 ISO 188
Tensile Strength			
Yield, 0.0748 in (1.90 mm) ¹	1250 psi	8.60 MPa	ASTM D412 ISO 37
Yield, 257°F (125°C), 0.0748 in (1.90 mm) ³	798 psi	5.50 MPa	ASTM D573 ISO 188
Tensile Elongation			
Break, 0.0748 in (1.90 mm) ¹	400 %	400 %	ASTM D412 ISO 37
Break, 257°F (125°C), 0.0748 in (1.90 mm) ³	220 %	220 %	ASTM D573 ISO 188
Tear Strength ^{4, 1} (0.0748 in (1.90 mm))	170 lbf/in	29.7 kN/m	ASTM D624
Compression Set ⁵			ASTM D395B ISO 815
75°F (24°C), 22 hr	16 %	16 %	
212°F (100°C), 22 hr	64 %	64 %	
Clash-Berg Modulus (-40°F (-40°C))	10000 psi	68.9 MPa	ASTM D1043

Technical Data Sheet



Alcryn 2070 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

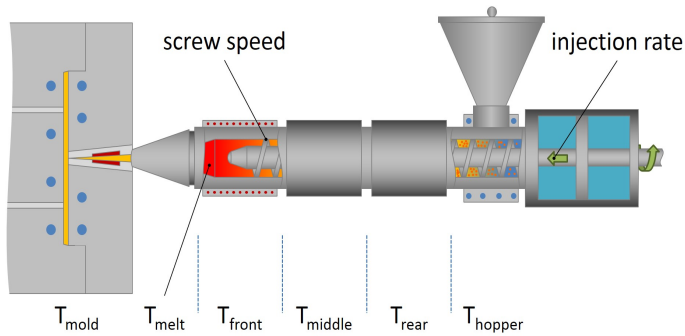
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 0.0748 in (1.90 mm), Compression Molded	68	68	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-121 °F	-85.0 °C	ASTM D746
			ISO 812
Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Change in Durometer Hardness in Air ²			ASTM D573
Shore A, 257°F (125°C), 168 hr	-3.0	-3.0	ISO 188
Change in Volume ²			ASTM D471
81°F (27°C), 168 hr, in Reference Fuel B	22 %	22 %	ISO 1817
212°F (100°C), 168 hr, in ASTM #1 Oil	-16 %	-16 %	
212°F (100°C), 168 hr, in IRM 903 Oil	18 %	18 %	
212°F (100°C), 168 hr, in Water	7.0 %	7.0 %	
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity (374°F (190°C), 300 sec ^A -1)	465 Pa·s	465 Pa·s	ASTM D3835

Technical Data Sheet



Alcryn 2070 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics



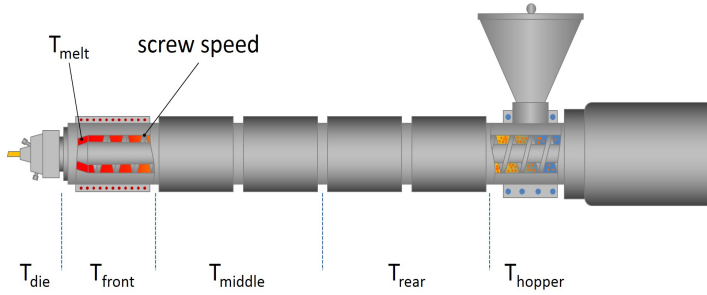
Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	351 °F	177 °C

Technical Data Sheet



Alcryn 2070 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics



Extrusion	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 200 °F	82 to 93 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	< 0.02 %	< 0.02 %
Cylinder Zone 1 Temp.	270 to 280 °F	132 to 138 °C
Cylinder Zone 2 Temp.	280 to 290 °F	138 to 143 °C
Cylinder Zone 3 Temp.	290 to 300 °F	143 to 149 °C
Cylinder Zone 4 Temp.	315 to 325 °F	157 to 163 °C
Melt Temperature	340 to 360 °F	171 to 182 °C
Die Temperature	325 to 350 °F	163 to 177 °C

Technical Data Sheet



Alcryn 2070 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

Notes

¹ Compression Molded

² 1.9 mm, Compression Molded

³ 7 days, Compression Molded

⁴ Die C

⁵ Type I pellets, 12.7 mm diameter, plied up from 1.9 mm slabs

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.