

Technical Data Sheet



Alcryn 2070 BK-C

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Fast Molding Cycle • General Purpose • Good Weather Resistance • 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
UL File NumberUSA	• E51193		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Vacuum Forming	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.14	1.14 g/cm ³	ASTM D471
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set ¹	12 %	12 %	ASTM D412
Tensile Stress ²			ASTM D412
100% Strain, 0.0748 in (1.90 mm)	641 psi	4.42 MPa	
Tensile Strength ²			
Yield, 0.0748 in (1.90 mm)	1220 psi	8.40 MPa	ASTM D412
Yield, 0.0748 in (1.90 mm) ³	1390 psi	9.57 MPa	ASTM D573
Tensile Elongation			
Break, 0.0748 in (1.90 mm) ²	330 %	330 %	ASTM D412
Break, 0.0748 in (1.90 mm) ³	310 %	310 %	ASTM D573
Tear Strength ^{4, 2} (0.0748 in (1.90 mm))	178 lbf/in	31.2 kN/m	ASTM D624
Compression Set			ASTM D395B
75°F (24°C), 22 hr ⁵	14 %	14 %	
158°F (70°C), 22 hr	56 %	56 %	
212°F (100°C), 22 hr ⁵	64 %	64 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 0.0748 in (1.90 mm), Compression Molded	70	70	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-110 °F	-79.0 °C	ASTM D746
Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Change in Volume ¹			ASTM D471
81°F (27°C), 168 hr, in Reference Fuel B	220 %	220 %	
212°F (100°C), 168 hr, in ASTM #1 Oil	-22 %	-22 %	
212°F (100°C), 168 hr, in IRM 903 Oil	9.5 %	9.5 %	
212°F (100°C), 168 hr, in Water	4.5 %	4.5 %	
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity (374°F (190°C), 300 sec ⁻¹)	413 Pa·s	413 Pa·s	ASTM D3835

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Notes

¹ 1.9 mm, Compression Molded

² Compression Molded

³ Aged for 168 hr at 257°F (125°C)

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/>.

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