

Technical Data Sheet

Alcryn 2070 BK

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General					
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		
RoHS Compliance	• RoHS Compliant				
Automotive Specifications	• GM GMP.TECEA.004	• GM GMW16088P-TPZ(NBR +PVC) Type 2			
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
--	1.14 g/cm ³	1.14 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	5.00 mg	5.00 mg	
Torsion Modulus ¹			ASTM D1043
-4°F (-20°C), 74.8 Mil (1.90 Mm)	1479 psi	10.2 MPa	
75°F (24°C), 74.8 Mil (1.90 Mm)	334 psi	2.30 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	609 psi	4.20 MPa	ASTM D412 ISO 37
100% Strain, 257°F (125°C), 0.0748 In (1.90 Mm) ³	638 psi	4.40 MPa	ASTM D573 ISO 188
Tensile Strength			
Yield, 0.0748 In (1.90 Mm) ¹	1260 psi	8.70 MPa	ASTM D412 ISO 37
Yield, 257°F (125°C), 0.0748 In (1.90 Mm) ³	1220 psi	8.40 MPa	ASTM D573 ISO 188
Tensile Elongation			
Break, 0.0748 In (1.90 Mm) ¹	320 %	320 %	ASTM D412 ISO 37
Break, 257°F (125°C), 0.0748 In (1.90 Mm) ³	280 %	280 %	ASTM D573 ISO 188
Tear Strength ^{4, 1} (0.0748 In (1.90 Mm))	160 lbf/in	28.0 kN/m	ASTM D624

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Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Compression Set ⁵			ASTM D395B ISO 815
75°F (24°C), 22 Hr	14 %	14 %	
212°F (100°C), 22 Hr	64 %	64 %	
Clash-Berg Modulus (-40°F (-40°C))	10000 psi	68.9 MPa	ASTM D1043
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240 ISO 868
Shore A, 0.0748 In (1.90 Mm), Compression Molded	68	68	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-110 °F	-79.0 °C	ASTM D746 ISO 812
Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Change in Durometer Hardness in Air ²			ASTM D573 ISO 188
Shore A, 257°F (125°C), 168 Hr	2.0	2.0	
Change in Volume ²			ASTM D471 ISO 1817
81°F (27°C), 168 Hr, In Reference Fuel B	25 %	25 %	
212°F (100°C), 168 Hr, In Astm #1 Oil	-17 %	-17 %	
212°F (100°C), 168 Hr, In Irm 903 Oil	19 %	19 %	
212°F (100°C), 168 Hr, In Water	6.0 %	6.0 %	
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity (374°F (190°C), 300 Sec ⁻¹)	410 Pa·s	410 Pa·s	ASTM D3835

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

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.