

Technical Data Sheet



Alcryn 2090 BK

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 Flow • High Heat Resistance	• 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	• Black		
Forms	• Pellets		
Processing Method	• Blow Molding • Compression Molding	• Extrusion • Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.17	1.17 g/cm ³	ASTM D792
--	1.17 g/cm ³	1.17 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	930 psi	6.41 MPa	ISO 527-1
Tensile Strength			ASTM D638
Yield, 0.0750 in (1.91 mm), Compression Molded	1570 psi	10.8 MPa	ISO 527-2
Tensile Elongation			ASTM D638
Break, 0.0750 in (1.91 mm), Compression Molded	320 %	320 %	ISO 527-2
Taber Abrasion Resistance			ASTM D1044
1000 Cycles, 1000 g, CS-17 Wheel	3.00 mg	3.00 mg	

Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set	13 %	13 %	ASTM D412
Tear Strength ¹ (75°F (24°C))	255 lbf/in	44.7 kN/m	ASTM D624
Compression Set			ASTM D395B
75°F (24°C), 22 hr	27 %	27 %	ISO 815
212°F (100°C), 22 hr	74 %	74 %	
Clash-Berg Modulus (-5°F (-21°C))	10000 psi	68.9 MPa	ASTM D1043

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore D, 0.0750 in (1.91 mm), Compression Molded	40	40	

Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Change in Volume			ASTM D471
75°F (24°C), 168 hr, in Reference Fuel B	36 %	36 %	
212°F (100°C), 168 hr, in ASTM #1 Oil	-10 %	-10 %	
212°F (100°C), 168 hr, in ASTM #3 Oil	-23 %	-23 %	

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Additional Information

The value listed as Density-Specific Gravity, ASTM D792, was tested in accordance with ASTM D471.

Aging Tensile Strength, ASTM D573, 7 days, 257°F: 37psi

Aging Elongation At Break, ASTM D573 and ISO 188: 71%

Fluid Resistance 7 Days in ASTM Oil no. 1, ISO 1817, at 212 °F: -10%

Fluid Resistance 7 Days in IRM 903 Oil no. 3, ISO 1817, at 212 °F: -23%

Fluid Resistance 7 Days in ASTM Ref. Fuel no. B, ISO 1817, at 75 °F: 36%

Rheological Viscosity, ASTM D3835, 1/300s at 374°F: 550Pa-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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