

Technical Data Sheet

Alcryn 3075 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Features	• Fast Molding Cycle • General Purpose • 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		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Blow Molding • Calendering	• Extrusion • Vacuum Forming	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.35	1.35 g/cm ³	ASTM D471
--	1.35 g/cm ³	1.35 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	< 1.00 mg	< 1.00 mg	
Torsion Modulus ¹			ASTM D1043
-4°F (-20°C), 74.8 Mil (1.90 Mm)	18492 psi	128 MPa	
75°F (24°C), 74.8 Mil (1.90 Mm)	493 psi	3.40 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set ²	11 %	11 %	ASTM D412
Tensile Stress			
100% Strain, 0.0748 In (1.90 Mm) ¹	856 psi	5.90 MPa	ASTM D412 ISO 37
100% Strain, 257°F (125°C), 0.0748 In (1.90 Mm) ³	957 psi	6.60 MPa	ASTM D573 ISO 188
Tensile Strength			
Yield, 0.0748 In (1.90 Mm) ¹	1420 psi	9.80 MPa	ASTM D412 ISO 37
Yield, 257°F (125°C), 0.0748 In (1.90 Mm) ³	1520 psi	10.5 MPa	ASTM D573 ISO 188
Tensile Elongation			
Break, 0.0748 In (1.90 Mm) ¹	360 %	360 %	ASTM D412 ISO 37
Break, 257°F (125°C), 0.0748 In (1.90 Mm) ³	350 %	350 %	ASTM D573 ISO 188
Tear Strength ^{4, 1} (0.0748 In (1.90 Mm))	280 lbf/in	49.0 kN/m	ASTM D624
Compression Set ⁵			ASTM D395B ISO 815
75°F (24°C), 22 Hr	23 %	23 %	
212°F (100°C), 22 Hr	67 %	67 %	
Clash-Berg Modulus (1°F (-17°C))	10000 psi	68.9 MPa	ASTM D1043

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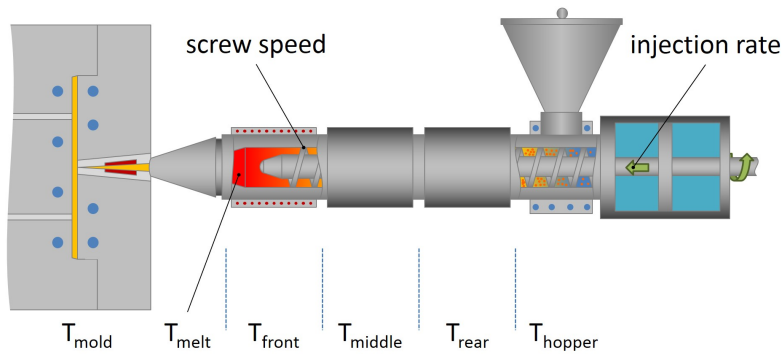
Engineering Plastics

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	76	76	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-22.0 °F	-30.0 °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	36 %	36 %	
212°F (100°C), 168 Hr, In Astm #1 Oil	-6.0 %	-6.0 %	
212°F (100°C), 168 Hr, In Irm 903 Oil	29 %	29 %	
212°F (100°C), 168 Hr, In Water	13 %	13 %	
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity (374°F (190°C), 300 Sec ⁻¹)	840 Pa·s	840 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.