

Technical Data Sheet

Alcryn 2080 NC

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Features	<ul style="list-style-type: none"> Fast Molding Cycle General Purpose High Flow 	<ul style="list-style-type: none"> High Heat Resistance Noise Damping Oil Resistant 	<ul style="list-style-type: none"> Ozone Resistant Recyclable Material Vibration Damping
Uses	<ul style="list-style-type: none"> Cable Jacketing Coating Applications Fabric Coatings Flexible Grips Gaskets 	<ul style="list-style-type: none"> General Purpose Handles Hose Overmolding Profiles 	<ul style="list-style-type: none"> Seals Tubing Weatherstripping Wire & Cable Applications
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant 		
Appearance	<ul style="list-style-type: none"> Natural Color 		
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Blow Molding Extrusion 	<ul style="list-style-type: none"> Injection Molding Vacuum Forming 	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.26	1.26 g/cm ³	ASTM D471
--	1.26 g/cm ³	1.26 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	10.0 mg	10.0 mg	
Torsion Modulus ¹			ASTM D1043
-4°f (-20°c), 74.8 Mil (1.90 Mm)	2074 psi	14.3 MPa	
75°f (24°c), 74.8 Mil (1.90 Mm)	421 psi	2.90 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	769 psi	5.30 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	1440 psi	9.90 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	140 %	140 %	ASTM D573 ISO 188
Tear Strength ^{4, 1} (0.0748 In (1.90 Mm))	190 lbf/in	33.3 kN/m	ASTM D624
Compression Set ⁵			ASTM D395B ISO 815
75°f (24°c), 22 Hr	17 %	17 %	
212°f (100°c), 22 Hr	61 %	61 %	
Clash-Berg Modulus (-26°f (-32°c))	10000 psi	68.9 MPa	ASTM D1043



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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	-105 °F	-76.0 °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	-5.0	-5.0	
Change in Volume ²			ASTM D471 ISO 1817
81°f (27°c), 168 Hr, In Reference Fuel B	29 %	29 %	
212°f (100°c), 168 Hr, In Astm #1 Oil	-14 %	-14 %	
212°f (100°c), 168 Hr, In Irm 903 Oil	23 %	23 %	
212°f (100°c), 168 Hr, In Water	8.0 %	8.0 %	
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity (374°f (190°c), 300 Sec ⁻¹)	640 Pa·s	640 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.