

Alcryn 2080 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.005	GM GMW16088P-TPZ(NBR +PVC) Type 3	
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			
--	1.17	1.17 g/cm ³	ASTM D471
--	1.17 g/cm ³	1.17 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	3.00 mg	3.00 mg	
Torsion Modulus ¹			ASTM D1043
-4°F (-20°C), 74.8 Mil (1.90 Mm)	3989 psi	27.5 MPa	
75°F (24°C), 74.8 Mil (1.90 Mm)	464 psi	3.20 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set ²	10 %	10 %	ASTM D412
Tensile Stress			
100% Strain, 0.0748 In (1.90 Mm) ¹	899 psi	6.20 MPa	ASTM D412 ISO 37
100% Strain, 257°F (125°C), 0.0748 In (1.90 Mm) ³	754 psi	5.20 MPa	ASTM D573 ISO 188
Tensile Strength			
Yield, 0.0748 In (1.90 Mm) ¹	1750 psi	12.1 MPa	ASTM D412 ISO 37
Yield, 257°F (125°C), 0.0748 In (1.90 Mm) ³	1600 psi	11.0 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	240 %	240 %	ASTM D573 ISO 188
Tear Strength ^{4, 1} (0.0748 In (1.90 Mm))	200 lbf/in	35.0 kN/m	ASTM D624



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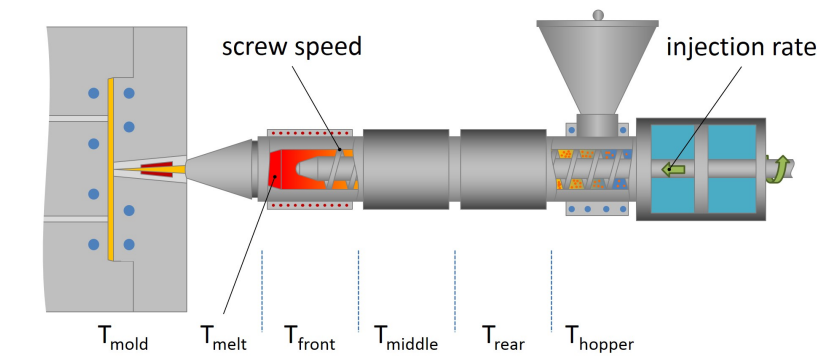
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Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Compression Set ⁵			ASTM D395B ISO 815
75°F (24°C), 22 Hr	14 %	14 %	
212°F (100°C), 22 Hr	62 %	62 %	
Clash-Berg Modulus (1°F (-17°C))	10000 psi	68.9 MPa	ASTM D1043
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240 ISO 868
Shore A, 0.0748 In (1.90 Mm), Compression Molded	78	78	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-123 °F	-86.0 °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	32 %	32 %	
212°F (100°C), 168 Hr, In Astm #1 Oil	-8.0 %	-8.0 %	
212°F (100°C), 168 Hr, In Irm 903 Oil	31 %	31 %	
212°F (100°C), 168 Hr, In Water	5.0 %	5.0 %	
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity (374°F (190°C), 300 Sec ⁻¹)	700 Pa·s	700 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.

