Technical Data Sheet

Alcryn® 2070 NC

Melt Processable Rubber
Engineering Plastics

General			
Features	• Fast Molding Cycle • General Purpose • 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.006		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Vacuum Forming	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.20	1.20 g/cm³	ASTM D471
--	1.20 g/cm³	1.20 g/cm³	ISO 2781
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Taber Abrasion Resistance			ASTM D1044
1000 Cycles, 1000 g, CS-17 Wheel	9.00 mg	9.00 mg	
Torsion Modulus [1]			ASTM D1043
-4°F (-20°C), 74.8 mil (1.90 mm)	1233 psi	8.50 MPa	
75°F (24°C), 74.8 mil (1.90 mm)	319 psi	2.20 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]	580 psi	4.00 MPa	ASTM D412 ISO 37
100% Strain, 257°F (125°C), 0.0748 in (1.90 mm) [3]	508 psi	3.50 MPa	ASTM D573 ISO 188
Tensile Strength			
Yield, 0.0748 in (1.90 mm) [1]	1250 psi	8.60 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]	220 %	220 %	ASTM D573 ISO 188
Tear Strength [4, 1] (0.0748 in (1.90 mm))	170 lbf/in	29.7 kN/m	ASTM D624
Compression Set [5]			ASTM D395B ISO 815
75°F (24°C), 22 hr	16 %	16 %	
212°F (100°C), 22 hr	64 %	64 %	
Clash-Berg Modulus (-40°F (-40°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	68	68	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Brittleness Temperature	-121 °F	-85.0 °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	-3.0	-3.0	
Change in Volume [2]			ASTM D471 ISO 1817
81°F (27°C), 168 hr, in Reference Fuel B	22 %	22 %	
212°F (100°C), 168 hr, in ASTM #1 Oil	-16 %	-16 %	
212°F (100°C), 168 hr, in IRM 903 Oil	18 %	18 %	
212°F (100°C), 168 hr, in Water	7.0 %	7.0 %	
Fill Analysis	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Melt Viscosity (374°F (190°C), 300 sec^-1)	465 Pa·s	465 Pa·s	ASTM D3835

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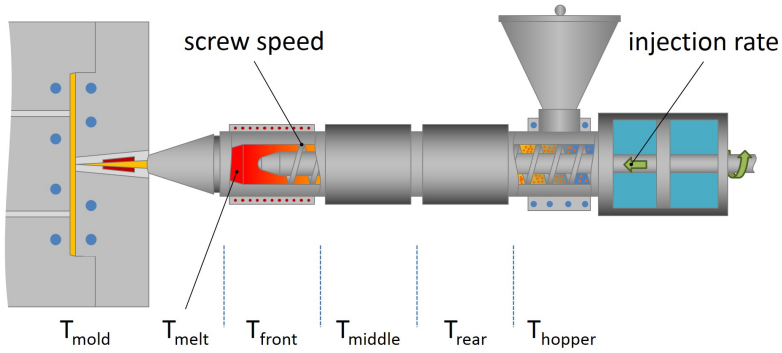

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	351 °F	177 °C

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.