

Alcryn[®] 2060 BK Melt Processable Rubber

Melt Processable Rubber Engineering Plastics

eneral			
Material Status	 Commercial: Active 		
Availability	 Asia Pacific 	Europe	 North America
Features	 Fast Molding Cycle General Purpose High Flow High Heat Resistance 	 Noise Damping Oil Resistant Ozone Resistant Recyclable Material 	Vibration DampingWeather Resistant
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.001	 GM GMW16088P-TPZ(NBR+PVC) Type 1 	
Appearance	Black		
Forms	Pellets		
Processing Method	Blow MoldingExtrusion	Injection MoldingVacuum Forming	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
	1.10	1.10 g/cm ³	ASTM D471
	1.10 g/cm ³	1.10 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	5.00 mg	5.00 mg	
Torsion Modulus ¹			ASTM D1043
-4°F (-20°C), 74.8 mil (1.90 mm)	856 psi	5.90 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	421 psi	2.90 MPa	ASTM D412 ISO 37
100% Strain, 257°F (125°C), 0.0748 in (1.90 mm) ³	392 psi	2.70 MPa	ASTM D573 ISO 188
Tensile Strength			
Yield, 0.0748 in (1.90 mm) ¹	1160 psi	8.00 MPa	ASTM D412 ISO 37
Yield, 257°F (125°C), 0.0748 in (1.90 mm) 3	1100 psi	7.60 MPa	ASTM D573 ISO 188

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Alcryn[®] 2060 BK Melt Processable Rubber

Engineering	Ρ	lastics
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Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method	
Tensile Elongation				
Break, 0.0748 in (1.90 mm) ¹	410 %	410 %	ASTM D412 ISO 37	
Break, 257°F (125°C), 0.0748 in (1.90 mm) 3	390 %	390 %	ASTM D573 ISO 188	
Tear Strength ^{4, 1} (0.0748 in (1.90 mm))	155 lbf/in	27.1 kN/m	ASTM D624	
Compression Set ⁵			ASTM D395B	
75°F (24°C), 22 hr	13 %	13 %	ISO 815	
212°F (100°C), 22 hr	62 %	62 %		
Clash-Berg Modulus (-40°F (-40°C))	10000 psi	68.9 MPa	ASTM D1043	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method	
Durometer Hardness			ASTM D2240	
Shore A, 0.0748 in (1.90 mm), Compression Molded	59	59	ISO 868	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method	
Brittleness Temperature	-125 °F	-87.0 °C	ASTM D746 ISO 812	
Aging	Nominal Value (English)	Nominal Value (SI)	Test Method	
Change in Durometer Hardness in Air ² Shore A, 257°F (125°C), 168 hr	4.0	4.0	ASTM D573 ISO 188	
Change in Volume ²			ASTM D471	
81°F (27°C), 168 hr, in Reference Fuel B	25 %	25 %	ISO 1817	
212°F (100°C), 168 hr, in ASTM #1 Oil	-19 %	-19 %		
212°F (100°C), 168 hr, in IRM 903 Oil	16 %	16 %		
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)	365 Pa·s	365 Pa·s	ASTM D3835	

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Alcryn[®] 2060 BK Melt Processable Rubber **Engineering Plastics** injection rate screw speed T_{hopper} T_{mold} T_{middle} T_{rear} T_{melt} T_{front} Injection Nominal Value (English) Nominal Value (SI) Processing (Melt) Temp 351 °F 177 °C

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Engineering Plastics

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

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