Technical Data Sheet

Alcryn ALC - 2090NCNAT

Melt Processable Rubber

Product Description

Alcryn 2060BK INJ BLK is a Melt Processable Rubber material and is typically used in Blow Molding, Extrusion, Injection Molding, Vacuum Forming applications. Features include: Fast Molding Cycle, Good Weather Resistance, High Flow, High Heat Resistance, Noise Damping, Oil Resistant, Ozone Resistant, Recyclable Material, and Vibration Damping.

Processing Method	Blow Molding; Extrusion; Injection Molding; Vacuum Forming
Attribute	Fast Molding Cycle; Good Weather Resistance; High Flow; High Heat Resistance; Noise Damping; Oil Resistant; Ozone Resistant; Recyclable Material; Vibration Damping
Forms	Pellets
Appearance	Black
Application	Cable Jacketing; Coating Applications; Fabric Coatings; Flexible Grips; Gaskets; General Purpose; Handles; Hose; Overmolding; Profiles; Seals; Tubing; Weatherstripping; Wire & Cable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.10	g/cm³	ISO 2781
Density - Specific Gravity	1.10	g/cm³	ASTM D471
Change in Volume			
(in Reference Fuel B, 27 °C, 168 hr)	25	%	ISO 1817
(in Reference Fuel B, 27 °C, 168 hr)	25	%	ASTM D471
(in ASTM #1 Oil, 100 °C, 168 hr)	-19	%	ISO 1817
(in ASTM #1 Oil, 100 °C, 168 hr)	-19	%	ASTM D471
(in IRM 903 Oil, 100 °C, 168 hr)	16	%	ASTM D471
(in IRM 903 Oil, 100 °C, 168 hr)	16	%	ISO 1817
(in Water, 100 °C, 168 hr)	8.0	%	ISO 1817
(in Water, 100 °C, 168 hr)	8.0	%	ASTM D471
Melt Viscosity, (190 °C, 300 sec^-1)	365	Pa·s	ASTM D3835
Mechanical			
Tensile Stress at 100%			
(1.90 mm)	2.90	MPa	ISO 37
(1.90 mm)	2.90	MPa	ASTM D412
(125 °C, 1.90 mm)	2.70	MPa	ISO 188
(125 °C, 1.90 mm)	2.70	MPa	ASTM D573
Torsion Modulus			
(24 °C, 1.9 mm) Compression Molded	2.2	MPa	ASTM D1043
(-20 °C, 1.9 mm) Compression Molded	5.9	MPa	ASTM D1043
Tensile Set	9	%	ASTM D412

Clash-Berg Modulus, (-40 °C)	68.9	MPa	ASTM D1043
Tensile Strength at Yield			
(1.90 mm)	8.00	MPa	ASTM D412
(125 °C, 1.90 mm)	7.60	MPa	ASTM D573
Tensile Stress at Yield			
(1.90 mm)	8.00	MPa	ISO 37
(125 °C, 1.90 mm)	7.60	MPa	ISO 188
Tensile Strain at Break			
(1.90 mm)	410	%	ISO 37
(125 °C, 1.90 mm)	390	%	ISO 188
Tensile Elongation at Break			
(125 °C, 1.90 mm)	390	%	ASTM D573
(1.90 mm)	410	%	ASTM D412
Tear Strength, (Die C, 1.90 mm)	27.1	kN/m	ASTM D624
Impact			
Ductile/Brittle Transition Temperature	-87	°C	ISO 812
Hardness			
Change in Shore Hardness in Air, (Shore A, 125 °C, 168 hr)	4.0		ISO 188
Shore Hardness, (Shore A, 1.90 mm, Compression Molded)	59		ISO 868
Change in Durometer Hardness in Air, (Shore A, 125 °C, 168 hr)	4.0		ASTM D573
Durometer Hardness, (Shore A, 1.90 mm, Compression Molded)	59		ASTM D2240
Additional Information			
Compression Set			
(24 °C, 22 hr, Method B)	13	%	ASTM D395
(100 °C, 22 hr, Method B)	62	%	ASTM D395
(24 °C, 22 hr)	13	%	ISO 815
(100 °C, 22 hr)	62	%	ISO 815
Taber Abrasion Resistance, (CS-17 Wheel, 1000 g, 1000 Cycles)	5.00	mg	ASTM D1044
UL Information			
UL File Number, (USA)	E51193		