Technical Data Sheet

Alcryn 2090BKBLK

Melt Processable Rubber

Product Description

Alcryn 2090BKBLK is a Melt Processable Rubber material and is typically used in Blow Molding, Compression Molding, Extrusion, Injection Molding applications. Features include: Good Weather Resistance, High Flow, High Heat Resistance, Noise Damping, Oil Resistant, Ozone Resistant, UV Resistant, and Vibration Damping.

Status	Commercial: Active
Availability	Asia-Pacific; Europe; North America
Processing Method	Blow Molding; Compression Molding; Extrusion; Injection Molding
Attribute	Good Weather Resistance; High Flow; High Heat Resistance; Noise Damping; Oil Resistant; Ozone Resistant; UV Resistant; Vibration Damping
Forms	Pellets
Appearance	Black
Additive	UV Stabilizer
Application	Cable Jacketing; Engineering Parts; Fabrics; Gaskets; Handles; Hose; Seals; Sheet; Tubing; Weatherstripping; Wire Jacketing

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.17	g/cm³	ISO 1183
Density - Specific Gravity	1.17	g/cm³	ASTM D792
Change in Volume			
(in ASTM #1 Oil, 100 °C, 168 hr)	-10	%	ASTM D471
(in Reference Fuel B, 24 °C, 168 hr)	36	%	ASTM D471
(in ASTM #3 Oil, 100 °C, 168 hr)	-23	%	ASTM D471
Mechanical			
Tensile Set	13	%	ASTM D412
Clash-Berg Modulus, (-21 °C)	68.9	MPa	ASTM D1043
Tensile Strength at Yield, (1.91 mm, Compression Molded)	10.8	MPa	ASTM D638
Tensile Stress at Yield, (1.91 mm, Compression Molded)	10.8	MPa	ISO 527-2
Tensile Strain at Break, (1.91 mm, Compression Molded)	320	%	ISO 527-2
Tensile Elongation at Break, (1.91 mm, Compression Molded)	320	%	ASTM D638
Tensile Modulus			
(1.91 mm, Compression Molded)	6.41	MPa	ASTM D638
(1.91 mm, Compression Molded)	6.41	MPa	ISO 527-1
Tear Strength, (24 °C, Die C)	44.7	kN/m	ASTM D624
Hardness			
Durometer Hardness, (Shore D, 1.91 mm, Compression Molded)	40		ASTM D2240
Additional Information			

Compression Set			
(24 °C, 22 hr, Method B)	27	%	ASTM D395
(100 °C, 22 hr, Method B)	74	%	ASTM D395
(24 °C, 22 hr)	27	%	ISO 815
(100 °C, 22 hr)	74	%	ISO 815
Taber Abrasion Resistance, (CS-17 Wheel, 1000 g, 1000 Cycles)	3.00	mg	ASTM D1044