

Alcryn® 2090 BK

Melt Processable Rubber

Advanced Polymer Alloys

Message:

Alcryn® 2090 BK is a melt processable rubber (MPR) material. This product is available in North America, Europe or Asia Pacific. The processing methods are: blow molding, extrusion, compression molding or injection molding.

Alcryn® The main features of 2090 BK are:

Comply with WEEE standard

ROHS certification

high liquidity

Good UV resistance

good weather resistance

Typical application areas include:

Wire and cable

engineering/industrial accessories

Hose

sheet

textile/fiber

General Information	
Additive	UV stabilizer
Features	Shock absorption
	Noise reduction
	Good UV resistance
	High liquidity
	Ozone resistance
	Good weather resistance
	Heat resistance, high
	Oil resistance
Uses	Handle
	Cable sheath
	Wire sheath
	Washer
	Engineering accessories
	Pipe
	Pipe fittings
	Seals
	Weather-resistant sealing strip
	Sheet
Fabric	
Agency Ratings	EU 2002/96/EC (WEEE)
RoHS Compliance	RoHS compliance

Appearance	Black
Forms	Particle
Processing Method	Blow molding Extrusion Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
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Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
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Hardness	Nominal Value	Unit	Test Method
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Durometer Hardness (Shore A, 1.91mm, molded)	88		ASTM D2240
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IRHD Hardness	88		ISO 48
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Modulus (1.91mm, molded)	6.41	MPa	ASTM D638, ISO 527-2
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Tensile Strength (yield, 1.91mm, molding)	10.8	MPa	ASTM D638, ISO 527-2
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Tensile Elongation (fracture, 1.91mm, molded)	320	%	ASTM D638, ISO 527-2
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Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	3.00	mg	ASTM D1044
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Elastomers	Nominal Value	Unit	Test Method
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Tensile Set	13	%	ASTM D412
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Tear Strength ¹ (24°C)	44.7	kN/m	ASTM D624
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Compression Set			ASTM D395B, ISO 815
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24°C, 22 hr	27	%	ASTM D395B, ISO 815
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100°C, 22 hr	74	%	ASTM D395B, ISO 815
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Clash-Berg Modulus (-21°C)	68.9	MPa	ASTM D1043
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Aging	Nominal Value	Unit	Test Method
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Change in Volume			ASTM D471
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24°C, 168 hr, in reference fuel B	36	%	ASTM D471
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100°C, 168 hr, ASTM Standard Oil (No.1)	-10	%	ASTM D471
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100°C, 168 hr, ASTM Standard Oil (No.3)	-23	%	ASTM D471
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Additional Information

The value listed as Density-Specific Gravity, ASTM D792, was tested in accordance with ASTM D471. Aging Tensile Strength, ASTM D573, 7 days, 257°F: 37psi Aging Elongation At Break, ASTM D573 and ISO 188: 71% Fluid Resistance 7 Days in ASTM Oil no. 1, ISO 1817, at 212 °F: -10% Fluid Resistance 7 Days in IRM 903 Oil no. 3, ISO 1817, at 212 °F: -23% Fluid Resistance 7 Days in ASTM Ref. Fuel no. B, ISO 1817, at 75 °F: 36% Rheological Viscosity, ASTM D3835, 1/300s at 374°F: 550Pa-s

Injection	Nominal Value	Unit
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Processing (Melt) Temp	177	°C
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NOTE

1. C mould

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