

Technical Data Sheet

Alcryn ALR - 2250BKBLK



Melt Processable Rubber

Product Description

Alcryn® 2250 BK is a Melt Processable Rubber (MPR) product. It can be processed by blow molding, extrusion, injection molding, or vacuum forming and is available in Asia Pacific, Europe, or North America. Applications of Alcryn® 2250 BK include coating applications, engineering/industrial parts, handles, hose/tubing and wire & cable.

Characteristics include:

- Chemical Resistant
- Eco-Friendly/Green
- Fast Molding Cycle
- Heat Resistant
- High Flow

Processing Method	Blow Molding; Extrusion; Injection Molding; Vacuum Forming
Attribute	Fast Molding Cycle; 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	1.06	g/cm ³	ISO 2781
Density - Specific Gravity	1.06	g/cm ³	ASTM D471
Change in Volume			
(in Reference Fuel B, 27 °C, 168 hr)	24	%	ISO 1817
(in Reference Fuel B, 27 °C, 168 hr)	24	%	ASTM D471
(in ASTM #1 Oil, 100 °C, 168 hr)	-39	%	ASTM D471
(in ASTM #1 Oil, 100 °C, 168 hr)	-39	%	ISO 1817
(in IRM 903 Oil, 100 °C, 168 hr)	32	%	ASTM D471
(in IRM 903 Oil, 100 °C, 168 hr)	32	%	ISO 1817
(in Water, 100 °C, 168 hr)	7.0	%	ASTM D471
(in Water, 100 °C, 168 hr)	7.0	%	ISO 1817
Melt Viscosity, (190 °C, 300 sec ⁻¹)	160	Pa·s	ASTM D3835
Mechanical			

Tensile Stress at 100%			
(1.90 mm)	1.90	MPa	ISO 37
(1.90 mm)	2.06	MPa	ASTM D412
(125 °C, 1.90 mm)	1.59	MPa	ASTM D573
(125 °C, 1.90 mm)	1.59	MPa	ISO 188
Tensile Set	7	%	ASTM D412
Clash-Berg Modulus, (-50 °C)	68.9	MPa	ASTM D1043
Tensile Strength at Yield			
(1.90 mm)	6.90	MPa	ASTM D412
(125 °C, 1.90 mm)	6.39	MPa	ASTM D573
Tensile Elongation at Break			
(125 °C, 1.90 mm)	430	%	ASTM D573
(1.90 mm)	430	%	ASTM D412
Tear Strength, (Die C, 1.90 mm)	21.0	kN/m	ASTM D624
Impact			
Ductile/Brittle Transition Temperature	-91	°C	ISO 812
Hardness			
Change in Shore Hardness in Air, (Shore A, 125 °C, 168 hr)	-2		ISO 188
Shore Hardness, (Shore A, 1.90 mm, Compression Molded)	46		ISO 868
Change in Durometer Hardness in Air, (Shore A, 125 °C, 168 hr)	-2		ASTM D573
Durometer Hardness, (Shore A, 1.90 mm, Compression Molded)	46		ASTM D2240
Additional Information			
Compression Set			
(24 °C, 22 hr, Method B)	14	%	ASTM D395
(100 °C, 22 hr, Method B)	52	%	ASTM D395
(24 °C, 22 hr)	14	%	ISO 815
(100 °C, 22 hr)	52	%	ISO 815
Taber Abrasion Resistance, (CS-17 Wheel, 1000 g, 1000 Cycles)	5.0	mg	ASTM D1044
Injection Parameters			
	Nominal Value	Units	
Processing (Melt) Temp	166	°C	