(+) 18816996168
Ponciplastics.com

Technical Data Sheet

Alcryn 2250 BKBLK

Melt Processable Rubber

Product Description

Alcryn 2250 BKBLK is a Melt Processable Rubber material and is typically used in Blow Molding, Extrusion, Injection Molding, Vacuum Forming applications. Features include: Fast Molding Cycle, 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; High Flow; High Heat Resistance; Noise Damping; Oil Resistant; Ozone Resistant; Recyclable Material; Vibration Damping
Forms	Pellets
Appearance	Translucent
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	English Units	Nominal Value	SI Units	Test Method
Physical					
Density	1.06	g/cm³	1.06	g/cm³	ISO 2781
Density - Specific Gravity	1.06	g/cm³	1.06	g/cm³	ASTM D471
Change in Volume					
(in Reference Fuel B, 27 °C, 168 hr)	24	%	24	%	ASTM D471
(in Reference Fuel B, 27 °C, 168 hr)	24	%	24	%	ISO 1817
(in ASTM #1 Oil, 100 °C, 168 hr)	-39	%	-39	%	ISO 1817
(in ASTM #1 Oil, 100 °C, 168 hr)	-39	%	-39	%	ASTM D471
(in IRM 903 Oil, 100 °C, 168 hr)	32	%	32	%	ISO 1817
(in IRM 903 Oil, 100 °C, 168 hr)	32	%	32	%	ASTM D471
(in Water, 100 °C, 168 hr)	7.0	%	7.0	%	ISO 1817
(in Water, 100 °C, 168 hr)	7.0	%	7.0	%	ASTM D471
Melt Viscosity, (190 °C, 300 sec^-1)			160	Pa·s	ASTM D3835
Mechanical					
Tensile Stress at 100%					
(1.90 mm)			2.07	MPa	ASTM D412
(1.90 mm)			1.90	MPa	ISO 37
(125 °C, 1.90 mm)			1.60	MPa	ASTM D573
(125 °C, 1.90 mm)			1.60	MPa	ISO 188

Torsion Modulus					
(24 °C, 1.9 mm)	300	psi			ASTM D1043
Compression Molded					
(-20 °C, 1.9 mm)	410	psi			ASTM D1043
Compression Molded					
Tensile Set	7	%	7	%	ASTM D412
Clash-Berg Modulus, (-26 °C)			68.9	MPa	ASTM D1043
Tensile Strength at Yield					
(1.90 mm)			6.96	MPa	ASTM D412
(125 °C, 1.90 mm)			6.40	MPa	ASTM D573
Tensile Stress at Yield					
(1.90 mm)			6.80	MPa	ISO 37
(125 °C, 1.90 mm)			6.40	MPa	ISO 188
Tensile Strain at Break					
(1.90 mm)	420	%	420	%	ISO 37
(125 °C, 1.90 mm)	450	%	450	%	ISO 188
Tensile Elongation at Break					
(125 °C, 1.90 mm)	430	%	430	%	ASTM D573
(1.90 mm)	430	%	430	%	ASTM D412
Tear Strength, (Die C, 1.90 mm)			21.0	kN/m	ASTM D624
Impact					
Ductile/Brittle Transition Temperature			-91	°C	ASTM D746
Hardness					
Change in Shore Hardness in Air, (Shore A, 125 °C, 168 hr)	-2.0		-2.0		ISO 188
Change in Durometer Hardness in Air, (Shore A, 125 °C, 168 hr)	-2.0		-2.0		ASTM D573
Durometer Hardness, (Shore A, 1.90 mm, Compression Molded)	46		46		ASTM D2240
Additional Information					
Compression Set					
(24 °C, 22 hr, Method B)	14	%	14	%	ASTM D395
(100 °C, 22 hr, Method B)	52	%	52	%	ASTM D395
Taber Abrasion Resistance, (CS-17 Wheel, 1000 g, 1000 Cycles)			5.00	mg	ASTM D1044

Processing (Melt) Temp	177	°C