Alcryn® 4660 BK

Melt Processable Rubber

Advanced Polymer Alloys

Message:

Alcryn®4660 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 4660 BK are:
Comply with WEEE standard
ROHS certification
Good UV resistance
good weather resistance
chemical 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 Medium 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
Specific Gravity	1.17	g/cm³	ASTM D792, ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 1.91mm, molded)	57		ASTM D2240
IRHD Hardness	57		ISO 48
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (1.91mm, molded)	2.96	MPa	ASTM D638, ISO 527-2
Tensile Strength (yield, 1.91mm, molding)	7.76	MPa	ASTM D638, ISO 527-2
Tensile Elongation (fracture, 1.91mm, molded)	390	%	ASTM D638, ISO 527-2
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	1.00	mg	ASTM D1044
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Set	7	%	ASTM D412
Tear Strength [1] (24°C)	33.3	kN/m	ASTM D624
Compression Set			ASTM D395B, ISO 815
24°C, 22 hr	16	%	ASTM D395B, ISO 815
100°C, 22 hr	72	%	ASTM D395B, ISO 815
Clash-Berg Modulus (-35°C)	68.9	MPa	ASTM D1043
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Shore Hardness in Air (125°C, 168 hr)	55		ISO 188
Change in Ultimate Elongation (125°C, 168 hr)	460	%	ASTM D471
Change in Durometer Hardness (125°C, 168 hr)	55		ASTM D471
Change in Volume			ASTM D471
24°C, 168 hr, in reference fuel B	11	%	ASTM D471
100°C, 168 hr, ASTM Standard Oil (No.1)	-19	%	ASTM D471
100°C, 168 hr, ASTM Standard Oil (No.3)	12	%	ASTM D471
100°C, 168 hr, in water	10	%	ASTM D471
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-73.9	°C	ASTM D746, ISO 974
Additional Information			

The value listed as Density-Specific Gravity, ASTM D792, was tested in accordance with ASTM D471.Torsion Modulus, ASTM D1043, 75°F: 250psiAging Tensile Strength, ASTM D573, 7 days, 257°F: 1210psiTorsion Modulus, ASTM D1043, -4°F: 1000psiAging 100% Modulus, ASTM D573, 7 days, 257 °F: 400psiAging Elongation At Break, ASTM D573 and ISO 188: 460%Fluid Resistance 7 Days in water, ISO 1817, at 212 °F: 10%Fluid Resistance 7 Days in ASTM Oil no. 1, ISO 1817, at 212 °F: -19%Fluid Resistance 7 Days in IRM 903 Oil no. 3, ISO 1817, at 212 °F: 12%Fluid Resistance 7 Days in ASTM Ref. Fuel no. B, ISO 1817, at 75 °F: 11%Rheological Viscosity, ASTM D3835, 1/300s at 374°F: 370Pa-s

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

NOTE	
1.	C mould

Recommended distributors for this material

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