

## Advanced Polymer Alloys Alcryn® 1080 BK Melt Processable Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processable Rubber

### Material Notes:

Alcryn melt-processable rubber (MPR) is a true rubber, based on a partially cross-linked, chlorinated olefin interpolymer alloy. Alcryn is designed for the manufacture of rubber parts with high productivity on thermoplastic processing equipment. Applications: Window and door weatherstripping (and other complex profile extrusions) Soft handles and grips Molded seals and gaskets Injection-molded and co-injection molded parts Blow-molded parts Tubing and hose Wire and cable jackets Coated fabrics and sheet goods Information provided by Advanced Polymer Alloys

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Advanced-Polymer-Alloys-Alcryn-1080-BK-Melt-Processable-Rubber.php](http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-Alcryn-1080-BK-Melt-Processable-Rubber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D471; ISO 2781
Viscosity	800000 cP	800000 cP	ASTM D3835
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	After 7 days at 257°F (125°C); ASTM D573; ISO 188
	78	78	ASTM D2240; ISO 48
Tensile Strength, Ultimate	13.1 MPa	1900 psi	ASTM D412; ISO 37
	14.03 MPa	2035 psi	After 7 days at 257°F (125°C); ASTM D573; ISO 188
Elongation at Break	190 %	190 %	After 7 days at 257°F (125°C); ASTM D573; ISO 188
	210 %	210 %	ASTM D412; ISO 37
100% Modulus	0.00793 GPa	1.15 ksi	ASTM D412; ISO 37
	0.009480 GPa	1.375 ksi	After 7 days at 257°F (125°C); ASTM D573; ISO 188
Graves Tear Strength	24.5 kN/m	140 pli	Die C; ASTM D624
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Taber Abrasion, mg/1000 Cycles	5.0	5.0	Cs-17 Wheel, 1000 g Load; ASTM D3389
Compression Set	15 %	15 %	After 22 Hr at 75°F (24°C); ASTM D395; ISO 815
	55 %	55 %	

Mechanical Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	22 hrs - ASTM D395; ISO 815 Comments
Tensile Set	8.0 %	8.0 %	ASTM D412
Torsional Stiffness	2.8938 MPa	419.71 psi	At 75°F (24°C); ASTM D1043
	19.981 MPa	2898.0 psi	At -4°F (-20°C); ASTM D1043

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-43.9 °C	-47.0 °F	ASTM D746; ISO 812
Clash Berg Stiffness Temperature	-30.0 °C	-22.0 °F	At 10,000 psi (69 Mpa); ASTM D1043

Processing Properties	Metric	English	Comments
Processing Temperature	177 °C	350 °F	

Descriptive Properties	Value	Comments
Fluid Resistance - Volume Change, % (ASTM D471)	10	After 7 Days in Water at 212°F (100°C)
	23	After 7 Days in IRM 903 Oil No.3 at 212°F (100°C)
	29	After 7 Days in ASTM Ref. Fuel No. B at 75°F (24°C)
	-8	After 7 Days in ASTM Oil No.1 at 212°F (100°C)

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China