

AlphaGary Evoprene™ HP 3730 High Performance Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Styrenic TPE

Material Notes:

Evoprene™ HP is a hydrogenated styrene block copolymer based thermoplastic elastomer. Specially formulated for applications requiring high strength and excellent abrasion resistance, Evoprene™ HP can be used in some applications where thermoplastic polyurethane would normally be specified. Evoprene™ HP has very good, heat ageing properties, excellent hydrolysis resistance and, when properly protected, very good antimicrobial resistance. Can be used in food contact applications with the appropriate stabilizer package

Order this product through the following link:

http://www.lookpolymers.com/polymer_AlphaGary-Evoprene-HP-3730-High-Performance-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.980 g/cc	0.980 g/cc	ISO 2782
Viscosity Measurement	16 @Temperature 150 °C	16 @Temperature 302 °F	Kg/cm ² ; Macklow-Smith extrusion rheometer

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Tensile Strength	17.8 MPa	2580 psi	ISO 37
Elongation at Break	765 %	765 %	ISO 37
100% Modulus	0.00380 GPa	0.551 ksi	ISO 37
200% Modulus	0.00440 GPa	0.638 ksi	ISO 37
300% Modulus	0.00530 GPa	0.769 ksi	ISO 37
Tear Strength	61.0 kN/m	348 pli	ISO 34-B
Abrasion	94	94	mm ³ ; DIN 53516
Compression Set	36 % @Temperature 22.0 °C, Time 259000 sec	36 % @Temperature 71.6 °F, Time 72.0 hour	ISO 815
	46 % @Temperature 70.0 °C, Time 79200 sec	46 % @Temperature 158 °F, Time 22.0 hour	ISO 815
	62 % @Temperature 100 °C, Time 79200 sec	62 % @Temperature 212 °F, Time 22.0 hour	ISO 815

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Descriptive Properties	Value	Comments
Bonds with	Polypropylene	
Chemical Resistance	Acetone	Moderate/Good
	Acids up to 80%	Excellent
	Alcohol	Excellent
	Alkalis	Excellent
	Brake fluid	Good
	Chlorinate solvents	Poor
	Diesel	Poor
	Ethylene glycol	Excellent
	Gasoline	Poor
	Salt solution	Excellent
	Soda lye	Excellent
	Water, 23°C	Excellent
	Water, 95°C	Good

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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