Evoprene™ HP 3706

Styrene Butadiene Block Copolymer

AlphaGary

Message:

A range of high performance TPE compounds based on hydrogenated styrene block copolymer (H-SBC) specially formulated for applications requiring high strength and excellent abrasion resistance. Two ranges are offered, unfilled and filled. The unfilled versions offer the best properties with filled versions available as lower cost options Tensile strength for both types is mostly over 25% higher than comparable unfilled SEBS type compounds whilst DIN abrasion for all but the softest grades is two to three times better. The characteristic good compression set, heat ageing and low temperature properties are maintained whilst high levels of UV stability can be achieved with the correct choice of the appropriate masterbatch. For details please refer to our EvopreneTM General Information brochure.

General Information	
Features	Acid Resistant
	Alcohol Resistant
	Alkali Resistant
	Block Copolymer
	Food Contact Acceptable
	Good Abrasion Resistance
	Good Heat Aging Resistance
	Good Processability
	High Strength
	Recyclable Material
Agency Ratings	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
RoHS Compliance	Contact Manufacturer
Forms	Pellets
Processing Method	Coextrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm³	ISO 2782
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	60		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Abrasion	52	mm³	DIN 53516
M-S Flow	1.96	MPa	Internal Method
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 37
100% Strain	1.90	MPa	
200% Strain	2.60	MPa	

300% Strain	3.40	MPa	
Tensile Stress (Yield)	9.50	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength [1]	44	kN/m	ISO 34-1
Compression Set			ISO 815
22°C, 72 hr	22	%	
70°C, 22 hr	35	%	
100°C, 22 hr	48	%	

Injection	Nominal Value	Unit
Suggested Max Regrind	20	%
Rear Temperature	160 to 190	°C
Middle Temperature	160 to 190	°C
Front Temperature	160 to 190	°C
Nozzle Temperature	160 to 190	°C
Processing (Melt) Temp	250	°C
Mold Temperature	40.0 to 60.0	°C
Injection Rate	Moderate	
Vent Depth	0.020 to 0.050	mm

NOTE	
1.	Method Ba, Angle (Unnicked)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China