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 Resistar	nce		
	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	МРа	Internal Method	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress			ISO 37	
100% Strain	1.90	МРа		
200% Strain	2.60	MPa		

300% Strain 3.40 MPa Tensile Stress (Yield) 9.50 MPa Tensile Elongation (Break) 550 % Tear Strength 1 44 kN/m Compression Set ** 22°C, 72 hr 22 % 70°C, 22 hr 48 % 100°C, 22 hr Nominal Value Unit Suggested Max Regrind 20 % Rear Temperature 160 to 190 °C Middle Temperature 160 to 190 °C Nozzle 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		
Tensile Elongation (Break) 550 % Tear Strength 1 44 kN/m Compression Set 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		
Tear Strength 1 44 kN/m Compression Set *** 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	ISO 37	
Compression Set 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	ISO 37	
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	ISO 34-1	
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	ISO 815	
100°C, 22 hr48%InjectionNominal ValueUnitSuggested Max Regrind20%Rear Temperature160 to 190°CMiddle Temperature160 to 190°CFront Temperature160 to 190°CNozzle Temperature160 to 190°CProcessing (Melt) Temp250°CMold Temperature40.0 to 60.0°CInjection RateModerateVent Depth0.020 to 0.050mm		
InjectionNominal ValueUnitSuggested Max Regrind20%Rear Temperature160 to 190°CMiddle Temperature160 to 190°CFront Temperature160 to 190°CNozzle Temperature160 to 190°CProcessing (Melt) Temp250°CMold Temperature40.0 to 60.0°CInjection RateModerateVent Depth0.020 to 0.050mm		
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		
Rear Temperature160 to 190°CMiddle Temperature160 to 190°CFront Temperature160 to 190°CNozzle Temperature160 to 190°CProcessing (Melt) Temp250°CMold Temperature40.0 to 60.0°CInjection RateModerateVent Depth0.020 to 0.050mm		
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		
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		
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		
Processing (Melt) Temp 250 °C Mold Temperature 40.0 to 60.0 °C Injection Rate Moderate Vent Depth 0.020 to 0.050 mm		
Mold Temperature 40.0 to 60.0 °C Injection Rate Moderate Vent Depth 0.020 to 0.050 mm		
Injection Rate Moderate Vent Depth 0.020 to 0.050 mm		
Vent Depth 0.020 to 0.050 mm		
· · · · · · · · · · · · · · · · · · ·		
NOTE		
1. Method Ba, Angle (Unnicked)	Method Ba, Angle (Unnicked)	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

