

Evoprene™ HP 3704

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 Evoprene™ 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/cm ³	ISO 2782
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion	60	mm ³	DIN 53516
M-S Flow	1.86	MPa	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% Strain	1.80	MPa	
200% Strain	2.50	MPa	

300% Strain	3.00	MPa	
Tensile Stress (Yield)	9.40	MPa	ISO 37
Tensile Elongation (Break)	580	%	ISO 37
Tear Strength ¹	41	kN/m	ISO 34-1
Compression Set			ISO 815
22°C, 72 hr	21	%	
70°C, 22 hr	35	%	
100°C, 22 hr	46	%	
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)

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