

Felix Compounds Felprene TPR

Styrene Butadiene Styrene Block Copolymer

Felix Compounds

Message:

Felprenes have a very good resistance to abrasion and an exceptional flexibility at low temperatures. The vast range of additives and olefins incorporated in our compounds has allowed us to create a large diversity of products that can replace either PVC elastomers in the shoe industry or natural rubber in the waterproof joints industry. Some similar products are Santoprene (TPV) and Monprene. Their affinity for PS, ABS or SAN make the Felprene class of Thermoplastic Elastomers an alternative to be considered in the choice of materials for casting and co-extrusion. We offer an extensive array of colors and hardness factors.

Felprenes are products that have SBS as the base ingredient, a molecule made up of a supple butadiene segment joined by two hard segments of styrene at its extremities. The supple segment gives the product its elastomeric properties, whereas the rigid segments create bridges amongst the molecules in the cooling phase, thus creating a three dimensional network. The styrene segments are what give the material its thermoplastic properties.

General Information	
Features	Block Copolymer
	Good Abrasion Resistance
	Low Temperature Flexibility
Uses	Footwear
Appearance	Clear/Transparent
	Colors Available
	Opaque
Processing Method	Casting
	Coextrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898 to 1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 to 16	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	15 to 90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	0.462 to 6.89	MPa	ASTM D412
Tensile Elongation (Break)	550 to 740	%	ASTM D412

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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

