EMPILON® HT85

Styrene Ethylene Butylene Styrene Block Copolymer

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Message:

EMPILON® HT series compound has excellent Tensile Strength property, good resilience, low specific gravity, good electrical and mechanical properties. The EMPILON® HT series can be applied in many fields of use, such as: power tool grips, automotive parts, sporting goods etc. Hydrogenated Styrenic Block Copolymer is the main content of this HT series compound, its hardness range is from Shore A 28 to 95. They can be processed by ordinary plastic machinery for Injection, extrusion or calendaring etc.
EMPILON® HT-series compound are non-toxic and free of Pb, Cd, Hg, Cr6+, Sb, As, Ba, Se, halogen and DOP plasticizer, they also comply with the Restriction of the use of certain Hazardous Substance directive in electrical and electronic equipment (RoHS 2002/95/EC) and SONY SS-00259 4th that prohibit products that contain Pb, Cd, Hg, Cr6+, PBB and PBDE etc. They are 100% recyclable and comply with the Waste Electrical and Electronic Equipment directive (WEEE 2002/95/EC).
EMPILON® HTseries compound retain good mechanical properties after solvent resistance testing and won't hydrolyze in water. It is not necessary to dehumidity the material before use. HT series is of semi-opaque type in nature. For coloring, please select color master batch based on of PE or EVA material with the exception of PVC. Higher screw speed and backpressure are needed for better colorant dispersion.

General Information	
Features	Block Copolymer
	Low (to no) lead content
	Low density
	Calcium content, low (to none)
	High tensile strength
	Recyclable materials
	Good electrical performance
	Hydrolysis resistance
	Non-toxic
	Halogen-free
	No antimony
	Elastic
Uses	Application in Automobile Field
	Sporting goods
RoHS Compliance	RoHS compliance
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion
	Calendering
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	17	g/10 min	ASTM D1238

Molding Shrinkage [1]			
Flow	0.50	%	
Transverse flow	0.90	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 10 sec)	32		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (300% Strain)	6.18	MPa	ASTM D412
Tensile Strength	15.3	MPa	ASTM D412
Tensile Elongation (Break)	720	%	ASTM D412
Compression Set (23°C, 70 hr)	45	%	ASTM D395
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (125°C, 168 hr)	8.0	%	ASTM D573
Change in Ultimate Elongation in Air (125°C, 168 hr)	-1.0	%	ASTM D573
Change in Durometer Hardness in Air	0.0		ASTM D573
Thermal	**Nominal Value**	**Unit**	
Brittleness Temperature	-50.0	°C	
Injection	**Nominal Value**	**Unit**	
Rear Temperature	175 - 185	°C	
Middle Temperature	185 - 195	°C	
Front Temperature	190 - 205	°C	
Nozzle Temperature	190 - 210	°C	
Processing (Melt) Temp	180 - 220	°C	
Mold Temperature	40.0 - 50.0	°C	
Injection Pressure	3.43 - 4.90	MPa	
Injection Rate	Fast		
Back Pressure	0.490 - 0.981	MPa	
Screw Speed	Medium		
Injection instructions			
Hold Time: 5 sec.Cycle Time: 15~20 sec.			
NOTE			
1.	Reference Only		

Recommended distributors for this material

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