EMPILON® HT20

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 r	none)			
	High tensile strength				
	Recyclable materials				
	Good electrical performan	nce			
	Hydrolysis resistance				
	Non-toxic				
	Halogen-free				
	No antimony				
	Elastic				
Uses	Application in Automobile	e Field			
	Sporting goods				
RoHS Compliance	RoHS compliance				
Appearance	Opacity				
Forms	Particle				
Processing Method	Extrusion				
	Calendering				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	14	g/10 min	ASTM D1238

Molding Shrinkage ¹			
Flow	1.2	%	
Transverse flow	1.2	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	28		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Fensile Stress (300% Strain)	0.196	MPa	ASTM D412
Tensile Strength	5.88	MPa	ASTM D412
Tensile Elongation (Break)	670	%	ASTM D412
Compression Set (23°C, 70 hr)	19	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 168 hr)	14	%	ASTM D573
Change in Ultimate Elongation in Air 125°C, 168 hr)	5.0	%	ASTM D573
Change in Durometer Hardness in Air Shore A, 125°C, 168 hr)	-14		ASTM D573
Thermal	Nominal Value	Unit	
Brittleness Temperature	-50.0	°C	
njection	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	
njection Pressure	3.43 - 4.90	MPa	
njection Rate	Fast		
Back Pressure	0.490 - 0.981	MPa	
Screw Speed	Medium		
njection instructions			
Hold Time: 5 sec.Cycle Time: 15~20 sec.			
NOTE			
1.	Reference Only		

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