EMPILON® HC51

Styrene Ethylene Butylene Styrene Block Copolymer EMPILON

Message:

EMPILON® HA series compound are specially designed for over-molding with engineering plastic such as ABS, PC, Nylon, PETG, PBT etc. which are commonly use in the 3C industry (Computer, Communication and Consumer electronics) as well as hand held device products for soft touch, anti-slip & vibration functional purposes. Hydrogenated Styrenic Block Copolymer is the main content of this HA series compound, its hardness range is from Shore A 52 to 77. They can be processed by Double injection and co-extrusion machines or ordinary plastic injection machines with an insert molding process. EMPILON® HA-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® HA-series compound retain good mechanical properties after heating, weathering and solvent resistance testing and won't hydrolyze in water. They need 80°C ~ 90°C dehumidified hot air at least 2 hours before any molding process and need to be continually dried during operation. The HA series are Opaque or Transparent type in nature. For coloring, please select color master batch based on PE or EVA material with the exception of PVC. Higher screw speed and backpressure are necessary for better colorant dispersion.

General Information				
Features	Block Copolymer			
	Low (to no) lead content			
	Calcium content, low (to none)			
	Recyclable materials			
	Hydrolysis resistance			
	Non-toxic			
	Halogen-free			
	No antimony			
Uses	overmolding			
	Soft touch application			
RoHS Compliance	RoHS compliance			
Forms	Particle			
Processing Method	Co-extrusion molding			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.910	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (150°C/2.16				
kg)	6.0	g/10 min	ASTM D1238	
Molding Shrinkage ¹				
Flow	0.20	%		
Transverse flow	0.50	%		
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A, 10 sec)	49		ASTM D2240	

Nominal Value	Unit	Test Method
0.981	MPa	ASTM D412
8.24	MPa	ASTM D412
600	%	ASTM D412
36	%	ASTM D395
Nominal Value	Unit	
-50.0	°C	
Nominal Value	Unit	
87.0	%	
Nominal Value	Unit	
1.6	kN/m	
Slow		
Nominal Value	Unit	
80.0 - 90.0	°C	
2.0	hr	
170 - 180	°C	
175 - 190	°C	
185 - 200	°C	
195 - 205	°C	
185 - 205	°C	
40.0 - 50.0	°C	
2.94 - 3.92	MPa	
Slow		
0.490 - 0.686	MPa	
	0.981 8.24 600 36 Nominal Value -50.0 Nominal Value 87.0 Nominal Value 1.6 Slow Nominal Value 80.0 - 90.0 2.0 170 - 180 175 - 190 185 - 205 185 - 205 40.0 - 50.0 2.94 - 3.92 Slow	0.981 MPa 8.24 MPa 600 % 36 % Nominal Value Unit -50.0 °C Nominal Value Unit 87.0 % Nominal Value Unit 1.6 kN/m Slow Volume Nominal Value Unit 80.0 - 90.0 °C 2.0 hr 170 - 180 °C 175 - 190 °C 185 - 200 °C 195 - 205 °C 40.0 - 50.0 °C 2.94 - 3.92 MPa Slow 0.490 - 0.686 MPa

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.

Reference Only

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

