

EMPILON® HC41

Styrene Ethylene Butylene Styrene Block Copolymer

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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/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage ¹			
Flow	0.30	%	
Transverse flow	0.50	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	31		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	0.686	MPa	ASTM D412
Tensile Strength	7.65	MPa	ASTM D412
Tensile Elongation (Break)	780	%	ASTM D412
Compression Set (23°C, 70 hr)	45	%	ASTM D395
Thermal	Nominal Value	Unit	
Brittleness Temperature	-50.0	°C	
Optical	Nominal Value	Unit	
Transmittance	87.0	%	
Additional Information	Nominal Value	Unit	
Adhesion to PC	2.0	kN/m	
Screw Speed	Slow		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0	hr	
Rear Temperature	170 - 180	°C	
Middle Temperature	175 - 190	°C	
Front Temperature	185 - 200	°C	
Nozzle Temperature	195 - 205	°C	
Processing (Melt) Temp	185 - 205	°C	
Mold Temperature	40.0 - 50.0	°C	
Injection Pressure	2.94 - 3.92	MPa	
Injection Rate	Slow		
Back Pressure	0.490 - 0.686	MPa	
Injection instructions			
Hold Time: 5 sec.Cycle Time: 15~30 sec.			
NOTE			
1.	Reference Only		

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