



和泰股份有限公司

彈性體事業處 (優能膠)

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HO TAI INDUSTRIAL CO.,LTD.

Elastomer Division (EMPILON)

No.352 Sec.2, Chung Shan E. Rd, Shine Wu

Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

TEL : 886-3-4904506

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EMPILON® HAR SERIES MATERIAL PROPERTIES

ISO 9001

General-

Since multiple variability with engineer plastics so over mold thermoplastic elastomer are popularly. EMPILON® HA series compounds have functional group of a saturated elastomer, poly (ethylene/butylene) , and usually contain specially plastics as the added polymer. These polymer compounds have the additional advantages of increased bonding strength, oxidation resistance, weather resistance, improved solvent resistance, and better processing stability. A wide variety of articles can be made from EMPILON® HA series compounds by using over molding or other forming techniques familiar to the engineer plastics-ABS (Acrylic-Butadiene-Styrene copolymer) , Polycarbonate and SAN. However, there are some differences in the processing behavior of these materials relative to other thermoplastics that necessitates minor modifications in mold designs and in processing conditions to achieve optimum performance. Whatever the soft felling grip or computer component are your planning to design by EMPILON® HA series. EMPILON® HA series offer FDA and UL94HB compatibility what are foggy appearance, non-skid quality and rubber-like feel. They are also latex free and insensitive of skin.

Processing-

EMPILON® HA series compounds with saturated elastomer functional group are considerably more stable to higher temperatures and shear rates. The normal processing temperature range is from 375~465°F (190~240°C) . These polymer compounds are often processed at higher shear rates. Usually we recommend customers can pre-dry before thermoplastic processing.

Storage-

Storage at room temperature (23°C) in the original sealed bag and keep out water evaporation or high humidity place. General speak, Thermoplastic elastomer Empilon® compound can storage over 12 months from shipment date.

Package-

20kg/paper bag



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Mechanical properties

ITEM	HA50	HA60	HA70
Specific gravity	1.02	1.02	1.02
Hardness (Shore A) [JIS K6301]	50	60	70
Tensile strength (kg/cm ²) [JIS K6301]	40	55	75
Elongation at break (%) [JIS K6301]	300	350	400
Brittle temperature (°C) [ASTM D746]	-55	-55	-55
Bonding strength (kg/2.5cm) Double injection	9	11	13
Insert molding	5	7	10
Melt index (g/10min) [ASTM G1238]	G2-8	G2-5	G3-8
Color	N	N/B	N
Shrinkage% (TD/MD)	1.5/1.2	1.5/1.2	1.2/1.0

*Melt index test method : C-150 °C/2.16Kg ; E-190 °C/2.16Kg ; P-190 °C/5Kg ; G-200 °C/5Kg