

Technical Data Sheet

FR HIPS(Flame retardant High Impact Poly Styrene)
HFH 407

Features High impact, Non-Deca type
Applications TV housing, Electronics

Physical	Test Method	Value
Density	ASTM D792	1.18 g/cm ³
Melt Flow Index (200°C, 5kg)	ASTM D1238	10 g/10min
Mold Shrinkage	ASTM D955	0.3 ~ 0.6 %
Water absorption	ASTM D570	0.5 %
Mechanical	Test Method	Value
Tensile Strength	ASTM D638	250 kg/cm ² (3,550) (psi)
Elongation	ASTM D638	35 %
Flexural Strength	ASTM D790	320 kg/cm ² (4,550) (psi)
Flexural Modulus	ASTM D790	21,000 kg/cm ² (298,000) (psi)
Izod Impact Strength(3.2mm)	ASTM D256	8 kgcm/cm (1.4) (ft-lb/in)
Rockwell Hardness(L scale)	ASTM D785	55
Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ASTM D648	75 °C (167) (°F)
Vicat Softening Temperature(1kg, 50°C/h)	ASTM D1525	94 °C (201) (°F)
Flammability	Test Method	Value
Flame Rating - UL (1.6mm, 3.2mm)	UL 94	V-0