

**Technical Data Sheet**

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

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

<b>Physical</b>	<b>Test Method</b>	<b>Value</b>
Density	ASTM D792	1.18 g/cm <sup>3</sup>
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 %
<b>Mechanical</b>	<b>Test Method</b>	<b>Value</b>
Tensile Strength	ASTM D638	250 kg/cm <sup>2</sup> (3,550) (psi)
Elongation	ASTM D638	35 %
Flexural Strength	ASTM D790	320 kg/cm <sup>2</sup> (4,550) (psi)
Flexural Modulus	ASTM D790	21,000 kg/cm <sup>2</sup> (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
<b>Thermal</b>	<b>Test Method</b>	<b>Value</b>
Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> )	ASTM D648	75 °C (167) (°F)
Vicat Softening Temperature(1kg, 50°C/h)	ASTM D1525	94 °C (201) (°F)
<b>Flammability</b>	<b>Test Method</b>	<b>Value</b>
Flame Rating - UL (1.6mm, 3.2mm)	UL 94	V-0