

Kumho PS HFH 412

High Impact Polystyrene
Korea Kumho Petrochemical Co., Ltd.

Message:
Features: High Impact, Non-deca type
Applications: OA Housing, Electronics

General Information			
Features	High Impact Resistance		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (Equilibrium)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	60		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.5	MPa	ASTM D638
Tensile Elongation (Yield)	40	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength (Yield)	31.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	77.0	°C	ASTM D648
Vicat Softening Temperature	91.0	°C	ASTM D1525 ¹
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	V-2		
1.60 mm	V-2		
3.20 mm	V-2		

NOTE	
1.	Rate A (50°C/h), Loading 1 (10 N)

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