

performanceplastics

HF380 ABS: General Purpose High Flow Grade

Properties

Physical	Method	Condition	Unit	Value
Melt Index	ASTM	200°C/5kg	g/10min	4
	ASTM	220°C/10kg	g/10min	43
	ASTM	230°C/3.8kg	g/10min	15
Specific Gravity	ASTM D792	23°C	-	1.04
Mold Shrinkage	ASTM D955	-	%	0.4-0.0

Mechanical	Method	Condition	Unit	Value
Tensile Strength at Yield	ASTM D638	50mm/min	MPa	44.4
Elongation at Yield	ASTM D638	50mm/min	%	>5
Elongation at Break	ASTM D638	50mm/min	%	>10
Flexural Strength	ASTM D790	15mm/min	MPa	71.1
Flexural Modulus	ASTM D790	15mm/min	MPa	2418
IZOD Impact strength	ASTM D256	6.4mm,23°C	J/m	245
	ASTM D256	6.4mm,-30°C	J/m	117.6
	ASTM D256	3.2mm,23°C	J/m	264.6
	ASTM D256	3.2mm,-30°C	J/m	117.6
Rockwell Hardness	ASTM D785	R-Scale	-	106

Electrical	Method	Condition	Unit	Value
HWI	UL 746A	PCLCode	-	3
HAI	UL 746A	PCLCode	-	0
CTI	UL746A	PCLCode	-	1
HVTR		PCLCode	-	1
Arc Resistance	ASTM D495	PCLCode	-	6

Thermal	Method	Condition	Unit	Value
Heat Deflection Temp	ASTM D648	6.4mm,18.5kg/cm ² (unannealed)	°C	86
	ASTM D648	6.4mm,4.6kg/cm ² (unannealed)	°C	89
	ASTM D648	6.4mm,18.5kg/cm ² (annealed)	°C	90
	ASTM D648	6.4mm,4.6kg/cm ² (annealed)	°C	91
Vicat Softening Temp	ASTM	5kg,50°C/hr	°C	94

Flammability	Method	Condition	Unit	Value
Flammability	UL94	3.2mm	class	HB
	UL94	1.6mm	Class	HB
	IEC707	3.2mm	mm/min	FH3-35

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products.

Prospective users should determine the suitability of materials before adopting them on a commercial scale.

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