

performanceplastics

PP Haiplen H30 G10 BA

Polypropylene homopolymer 50% glass fibre reinforced, Very good mechanical properties

Properties

Physical	Method	Condition	Unit	Value
Melt Index	ISO 1133	230°C/2.16kg	g/10min	4
Specific Gravity	ISO 1183	23°C	g/cm ³	1.34
Mold Shrinkage	ASTM D955	Flow Across Flow	%	0.2 – 0.35 0.4 – 0.55
Water Absorption	ISO 62	23°C, 24 hr	%	0.10

Mechanical	Method	Condition	Unit	Value
Izod Notched Impact	ASTM D256	23°C	J/m	140
Izod Notched Impact	ASTM D256	-20°C	J/m	70
Charpy Unnotched	ISO 179/1eU	23°C	kJ/m ²	78
Tensile Modulus	ISO 527		MPa	8800
Tensile Break Strength	ISO 527		MPa	110
Elongation at Break	ISO 527		%	3
Flexural Strength	ISO 178		MPa	140
Flexural Modulus	ISO 178		MPa	7700

Thermal	Method	Condition	Unit	Value
Vicat Temperature	ISO 306	1Kg	°C	158
Vicat Temperature	ISO 306	5Kg	°C	140
HDT	ISO 75A	1.82MPa	°C	150
Ball Pressure Test	IEC 60695-10-2		°C	125

Electrical	Method	Condition	Unit	Value
Comparative Tracking Index	IEC 60112	Method A	Volt	>600

Flammability	Method	Condition	Unit	Value
Burning Behaviour	UL94	1.6mm	Class	HB
Glow Wire Flammability	IEC 60695-2-12	1.6mm	°C	650
Glow Wire Ignition	IEC 60695-2-13	1.6mm	°C	550
Oxygen Index	ASTM D2863		%	21

Injection	Method	Condition	Unit	Value
Drying Temperature		1.0 hr	°C	70 – 80
Processing (Melt) Temp			°C	220 – 250
Mould Temperature			°C	50 – 70
Injection Rate		Moderate		

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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