

performanceplastics

PC/ABS 45 X0

PC/ABS alloy medium low thermal resistance, flame retardant UL94 V0

Drying - Conditions		Melt temperature: 220 - 240°C
Pre-Heater: 80 - 100°C / 3 h		Mould temperature: 50 - 70°C
Dryer: 80°C / 1 h		Rate of injection: MEDIUM

PROPERTIES

Mechanical Properties

	Condition	Standard	Unit	Value
Izod notched impact	23°C	ASTM D256	J/m	350
Charpy notched impact	23°C	ISO 179/1eA	kJ/m ²	18
Charpy unnotched Impact	23°C	ISO 179/1eU	kJ/m ²	No Break
Tensile Modulus	Speed 1mm/min	ISO 527-1,2	MPa	2500
Flexural modulus	Speed 1mm/min	ISO 178	MPa	2400
Elongation at break	Speed 50mm/min	ISO 527-1,2	%	30
Tensile break strength	Speed 50mm/min	ISO 527-1,2	MPa	50
Tensile yield strength	Speed 50mm/min	ISO 527-1,2	MPa	60
Flexural max strength	Speed 1mm/min	ISO 178	MPa	80

Thermal Properties

Vicat temperature	1Kg 50°C/h	ISO 306	°C	120
Vicat temperature	5Kg 50°C/h	ISO 306	°C	108
Heat deflection temperature	1.82 Mpa 120°C/h	ISO 75A	°C	96
Continuous service temperature		IEC 60216	°C	60
Coefficient of linear thermal expansion	-30°C/+30°C	ISO 11359-1,-2	K ⁻¹	7x10exp(-5)

Electrical Properties

Dielectric strength	2mm	IEC 60243-1	kV/mm	22
Comparative tracking index	CTI -Method A	IEC 60112	Volt	200
Volume resistivity		IEC 60093	Ohm cm	>10exp(15)

Flammability

Oxygen index		ASTM D2863	%	32
Flame behaviour (yellow card)	1.7mm	UL94	Class	V0
Glow wire flammability index (GW2mm)		IEC 60695-2-12	°C	960

General Properties

Density		ISO 1183	g/cm ³	1.16-1.18
Melt flow rate	260°C-5Kg	ISO 1133	g/10 min	30±5
Water absorption	24h/23°C	ISO 62	%	0.25
Water absorption at saturation		ISO 62	%	0.65
Mould Shrinkage	Parallel		%	0.4-0.7
Mould Shrinkage	Normal		%	0.4-0.7

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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