

Properties

MAS10, MAS10F

MS resin

Standard

Properties	Test methods	Test conditions	Units	
Melt mass-flow rate	ISO 1133	220 deg C/10kg	g/10min	22
Mold shrinkage	Daicel method	-	%	0.3-0.5
Tensile strength	ISO 527	-	MPa	62
Flexural strength	ISO 178	-	MPa	105
Flexural modulus	ISO 178	-	MPa	3300
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	2
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	15
Rockwell hardness	ISO 2039	-	-	M73
Deflection temperature under load	ISO 75	1.80MPa	deg C	77
Deflection temperature under load	ASTM D648	1.82MPa/12.7mm	deg C	87
Ball pressure temperature	-	-	deg C	90
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	7
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	-
Flammability	UL94	-	-	HB
Water absorption	ISO 62	-	%	0.11
Density	ISO 1183	-	g/cm ³	1.08

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.
- UL recognition File No. is E47773.
- The colorant formulations are restricted for each UL certified color. Please contact us for more information.

Typical settings for processing

Preliminary drying	Barrel temperature(deg C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (deg C)
	Nozzle	Front	Middle	Back			
3-5hrs 80-85deg C	210-230	210-230	190-210	170-190	70-90	10-20	40-60