

Properties

460M

ABS resin

Heat resistance

Properties	Test methods	Test conditions	Units	
Melt mass-flow rate	ISO 1133	220 deg C/10kg	g/10min	20
Mold shrinkage	Daicel method	-	%	0.4-0.6
Tensile strength	ISO 527	-	MPa	43
Flexural strength	ISO 178	-	MPa	67
Flexural modulus	ISO 178	-	MPa	2400
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	21
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	210
Rockwell hardness	ISO 2039	-	-	R110
Deflection temperature under load	ISO 75	1.80MPa	deg C	85
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	8
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	-
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm ³	1.05

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.

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 80-90deg C	240-260	240-260	220-240	200-230	50-100	10-20	40-60