

Properties

A1700

PA/ABS resin

Properties	Test methods	Test conditions	Units	Dry	2.7% moist.
Mold shrinkage	Daicel method	-	%	0.8-1.1	-
Tensile strength	ISO 527	-	MPa	50	33
Flexural strength	ISO 178	-	MPa	74	42
Flexural modulus	ISO 178	-	MPa	2200	960
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	16	40
Notched Charpy impact strength	ISO 179/1eA	-30 deg C	kJ/m ²	7	-
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	160	440
Notched Izod impact strength	ASTM D256	-30 deg C/6.4mm	J/m	70	-
Rockwell hardness	ISO 2039	-	-	R116	R109
Deflection temperature under load	ISO 75	1.80MPa	deg C	70	70
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	80	78
Deflection temperature under load	ISO 75	0.45MPa	deg C	105	95
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	105	99
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	10	-
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	-	-
Flammability	UL94	-	-	HB	-
Water absorption	ISO 62	-	%	1.0	-
Density	ISO 1183	-	g/cm ³	1.09	-

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			
4-5hrs 90-100deg C	220-250	230-260	220-250	180-210	60-90	10-20	60-70