

NOVALLOY S series

PC/ABS resin

Technical Information

TI-05384

Properties

S6700

Flame-retardant PC/ABS resin

Heat resistance

*The product(s) do not contain halogenated compounds as flame retardants and do not contain antimony compounds.

Properties	Test methods	Test conditions	Units	
Melt mass-flow rate	ISO 1133	220 deg C/10kg	g/10min	31
Melt mass-flow rate	ISO 1133	240 deg C/5kg	g/10min	21
Mold shrinkage	Our standard	-	%	0.4-0.6
Tensile strength	ISO 527	-	MPa	61
Flexural strength	ISO 178	-	MPa	96
Flexural modulus	ISO 178	-	MPa	2800
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	10
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	150
Deflection temperature under load	ISO 75	1.80MPa	deg C	86
Deflection temperature under load	ASTM D648	1.82MPa/12.7mm	deg C	95
Vicat softening temperature	ISO 306/B50	50N X 50deg C/h	deg C	101
Ball pressure temperature	-	-	deg C	90
Flammability	UL94	-	-	V-0/1.6mm 5VB/2.0mm 5VA/2.5mm
Dielectric strength	ASTM D149	1.5mm	MV/m	21
Arc resistance	ASTM D495	3.0mm	sec(PLC)	118(6)
Hot wire ignition	UL746A	1.5mm	sec(PLC)	28 (3)
High ampere arc ignition	UL746A	1.5mm	arcs(PLC)	150 (0)
High voltage tracking rate	UL746A	3.0mm	mm/min(PLC)	87 (3)
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm ³	1.17

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			
3-4hrs 80-90deg C	220-250	230-250	210-230	190-210	40-60	5-15	40-60

Novacel Co., Ltd.

2024/07/01-0