

NOVALLOY A series

PA resin

Technical Information

TI-05382

Properties

A58SXA

Glass fiber-reinforced flame-retardant PA resin (GF50%)

High rigidity

Properties	Test methods	Test conditions	Units	
Tensile strength	ISO 527	-	MPa	148
Flexural strength	ISO 178	-	MPa	250
Flexural modulus	ISO 178	-	MPa	15000
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m2	16
Deflection temperature under load	ISO 75	1.80MPa	deg C	201
Deflection temperature under load	ISO 75	0.45MPa	deg C	217
Flammability	UL94	-	-	V-0/0.8mm
Hot wire ignition	UL746A	0.8mm	sec(PLC)	120(0)
High ampere arc ignition	UL746A	0.8mm	arcs(PLC)	150(0)
CTI	ASTM D3638	3.0mm	V(PLC)	518(1)
Density	ISO 1183	-	g/cm3	1.73

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	230-250	240-260	230-250	180-210	50-80	10-20	70-90

Novacel Co., Ltd.

2024/07/01-0