

NOVALLOY B series

PBT/ABS resin

Technical Information

TI-05279

Properties

B5556S

COLOR No. 9S953S

Glass fiber-reinforced flame-retardant PBT/ABS resin (GF30%)

Properties	Test methods	Test conditions	Units	
Melt mass-flow rate	ISO 1133	240 deg C/5kg	g/10min	16
Mold shrinkage	Our standard	-	%	0.2-0.4
Tensile strength	ISO 527	-	MPa	110
Flexural strength	ISO 178	-	MPa	165
Flexural modulus	ISO 178	-	MPa	10000
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	7
Deflection temperature under load	ISO 75	1.80MPa	deg C	145
Flammability	UL94	-	-	V-0/0.75mm
Hot wire ignition	UL746A	0.75mm	sec(PLC)	20(3)
High ampere arc ignition	UL746A	0.75mm	arcs(PLC)	150(0)
Density	ISO 1183	-	g/cm ³	1.57

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 80-120deg C	230-250	240-250	220-240	190-230	50-90	5-20	60-80

Novacel Co., Ltd.

2024/07/01-0