

NOVALLOY A series

PA/ABS resin

Technical Information

TI-05285

Properties

A2508(V)

Glass fiber-reinforced PA/ABS resin (GF40%)

Properties	Test methods	Test conditions	Units	Dry	0.5% moist.
Mold shrinkage	Our standard	-	%	0.1-0.4	-
Tensile strength	ISO 527	-	MPa	137	114
Flexural strength	ISO 178	-	MPa	220	193
Flexural modulus	ISO 178	-	MPa	10000	9000
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	15	17
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	150	170
Rockwell hardness	ISO 2039	-	-	R118	R117
Deflection temperature under load	ISO 75	1.80MPa	deg C	185	175
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	185	178
Deflection temperature under load	ISO 75	0.45MPa	deg C	213	210
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	213	210
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	2	-
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	10	-
Flammability	UL94	-	-	HB	-
Water absorption	ISO 62	-	%	0.5	-
Density	ISO 1183	-	g/cm ³	1.38	-

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