

# NOVALLOY A series

PA/ABS resin

Technical Information

TI-05381

## Properties

### A5734R

Glass fiber-reinforced flame-retardant PA/ABS resin (GF20%)

Properties	Test methods	Test conditions	Units	Dry	1.0% moist.
Mold shrinkage	Our standard	-	%	0.2-0.5	
Tensile strength	ISO 527	-	MPa	106	86
Flexural strength	ISO 178	-	MPa	171	136
Flexural modulus	ISO 178	-	MPa	6400	4800
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m <sup>2</sup>	11	12
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	110	
Rockwell hardness	ISO 2039	-	-	R116	R115
Deflection temperature under load	ISO 75	1.80MPa	deg C	194	190
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	198	
Deflection temperature under load	ISO 75	0.45MPa	deg C	216	214
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	217	
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	5	
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	10	
Flammability	UL94	-	-	V-0/1.5mm	
Water absorption	ISO 62	-	%	0.6	
Density	ISO 1183	-	g/cm <sup>3</sup>	1.46	

#### 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