

NOVALLOY A series

PA/ABS resin

Technical Information

TI-05190

Properties

A5624

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	96	77
Flexural strength	ISO 178	-	MPa	161	130
Flexural modulus	ISO 178	-	MPa	6300	5100
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	12	13
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	120	
Rockwell hardness	ISO 2039	-	-	R116	R115
Deflection temperature under load	ISO 75	1.80MPa	deg C	181	176
Deflection temperature under load	ASTM D648	1.82MPa/6.4mm	deg C	183	
Deflection temperature under load	ISO 75	0.45MPa	deg C	212	210
Deflection temperature under load	ASTM D648	0.46MPa/6.4mm	deg C	213	
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-0/0.75mm	
Water absorption	ISO 62	-	%	0.6	
Density	ISO 1183	-	g/cm ³	1.45	

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.

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