

NOVALLOY E series

Long-lasting antistatic ABS resin

Technical Information

TI-05202

Properties

E50

Flame-retardant long-lasting antistatic ABS resin
Standard

Properties	Test methods	Test conditions	Units	
Melt mass-flow rate	ISO 1133	240 deg C/5kg	g/10min	6
Mold shrinkage	Our standard	-	%	0.4-0.7
Tensile strength	ISO 527	-	MPa	37
Flexural strength	ISO 178	-	MPa	56
Flexural modulus	ISO 178	-	MPa	1800
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	12
Notched Charpy impact strength	ISO 179/1eA	-30 deg C	kJ/m ²	5
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	120
Deflection temperature under load	ISO 75	1.80MPa	deg C	80
Deflection temperature under load	ASTM D648	1.82MPa/12.7mm	deg C	90
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	9
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	-
Flammability	UL94	-	-	V-2/1.0mm V-0/1.5mm
Surface resistivity	ASTM D257	-	ohm	6E+12
Dielectric strength	ASTM D149	1.5mm	MV/m	11
Arc resistance	ASTM D495	3.0mm	sec(PLC)	57(7)
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm ³	1.24

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 80-90deg C	210-220	220-230	210-220	180-200	60-90	10-20	40-70