

NOVALLOY E series

Long-lasting antistatic ABS resin

Technical Information

TI-05201

Properties

E11

Long-lasting antistatic ABS resin
Standard

Properties	Test methods	Test conditions	Units	
Melt mass-flow rate	ISO 1133	240 deg C/5kg	g/10min	20
Mold shrinkage	Our standard	-	%	0.4-0.7
Tensile strength	ISO 527	-	MPa	44
Flexural strength	ISO 178	-	MPa	66
Flexural modulus	ISO 178	-	MPa	2200
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	28
Notched Izod impact strength	ASTM D256	23 deg C/6.4mm	J/m	340
Rockwell hardness	ISO 2039	-	-	R108
Deflection temperature under load	ISO 75	1.80MPa	deg C	77
Deflection temperature under load	ASTM D648	1.82MPa/12.7mm	deg C	88
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	-	-	HB
Volume resistivity	ASTM D257	-	ohm*m	2E+10
Surface resistivity	ASTM D257	-	ohm	1E+12
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm ³	1.06

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