

## 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	Daicel method	-	%	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 <sup>2</sup>	12
Notched Charpy impact strength	ISO 179/1eA	-30 deg C	kJ/m <sup>2</sup>	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	6E12
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 <sup>3</sup>	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