

Novalloy-E E50

Acrylonitrile Butadiene Styrene

Daicel Polymer Ltd.

Message:

Novalloy-E E50 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific. Primary attribute of Novalloy-E E50: Flame Rated.

General Information			
UL YellowCard	E47773-239460		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/5.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	37.0	MPa	ISO 527-2
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress	56.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	
23°C	12	kJ/m ²	
Notched Izod Impact (23°C, 6.40 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 12.7 mm	90.0	°C	ASTM D648
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+12	ohms	ASTM D257
Dielectric Strength (1.50 mm)	11	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	57.0	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 7		ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	V-2		
1.50 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 5.0	hr	
Rear Temperature	180 to 200	°C	

Middle Temperature	210 to 220	°C
Front Temperature	220 to 230	°C
Nozzle Temperature	210 to 220	°C
Mold Temperature	40.0 to 70.0	°C
Back Pressure	10.0 to 20.0	MPa
Screw Speed	60 to 90	rpm

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