

Novalloy-E E81

Acrylonitrile Butadiene Styrene

Daicel Polymer Ltd.

Message:

Novalloy-E E81 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific.

General Information			
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	80.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	68.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+9	ohms	ASTM D257
Volume Resistivity	7.0E+8	ohms · cm	ASTM D257
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	86.0	%	ASTM D1003
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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