

Novalloy-E EG506

Acrylonitrile Butadiene Styrene

Daicel Polymer Ltd.

Message:

Novalloy-E EG506 is an Acrylonitrile Butadiene Styrene (ABS) material filled with 30% glass fiber. It is available in Asia Pacific. Primary attribute of Novalloy-E EG506: Flame Rated.

General Information			
UL YellowCard	E47773-239466		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	67.0	MPa	ISO 527-2
Flexural Modulus	7600	MPa	ISO 178
Flexural Stress	91.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Notched Izod Impact (23°C, 6.40 mm)	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 12.7 mm	97.0	°C	ASTM D648
1.8 MPa, Unannealed	93.0	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	
Transverse	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+12	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
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	50.0 to 80.0	°C
Back Pressure	10.0 to 20.0	MPa
Screw Speed	50 to 80	rpm

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