

EXCELLOY EK13C8

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

Message:

EXCELLOY EK13C8 is an Acrylonitrile Butadiene Styrene (ABS) product filled with carbon fiber. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

Antistatic

Conductive

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	Antistatic		
Features	Antistatic		
	Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	13	g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.40	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	102		ASTM D785
R-Scale	103		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	74.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2
Flexural Modulus			
--	4520	MPa	ASTM D790
--	4500	MPa	ISO 178
Flexural Strength			
--	92.0	MPa	ASTM D790
--	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Notched Izod Impact	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	102	°C	ASTM D648

0.45 MPa, Unannealed	97.0	°C	ISO 75-2/B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	190 to 260	°C	
Middle Temperature	190 to 260	°C	
Front Temperature	190 to 260	°C	
Mold Temperature	40.0 to 80.0	°C	

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