

EXCELLOY EK50

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

Message:

EXCELLOY EK50 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

- Flame Rated
- Antistatic
- Conductive

General Information			
UL YellowCard	E54297-244186		
Additive	Antistatic		
Features	Antistatic		
	Conductive		
UL File Number	E54297		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	100		ASTM D785
R-Scale	98		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	39.2	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2
Flexural Modulus			
--	2350	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Strength			
--	68.6	MPa	ASTM D790
--	64.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	12	kJ/m²	ISO 179
Notched Izod Impact	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
0.45 MPa, Unannealed	100	°C	ASTM D648
0.45 MPa, Unannealed	87.0	°C	ISO 75-2/B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+10	ohms	ASTM D257
Comparative Tracking Index	200	V	JIS L1094
Flammability	Nominal Value	Unit	Test Method
Flame Rating (ALL)	HB		UL 94
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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