

EXCELLOY EK81

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

Message:

EXCELLOY EK81 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	E54297-244335		
Additive	Antistatic		
Features	Antistatic		
	Conductive		
UL File Number	E54297		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	42	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	104		ASTM D785
R-Scale	102		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	45.1	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2
Flexural Modulus			
--	2260	MPa	ASTM D790
--	1840	MPa	ISO 178
Flexural Strength			
--	75.5	MPa	ASTM D790
--	59.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	12	kJ/m ²	ISO 179
Notched Izod Impact	98	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	84.0	°C	ASTM D648
0.45 MPa, Unannealed	69.0	°C	ISO 75-2/B
Flammability	Nominal Value		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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Recommended distributors for this material

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