

Ultraform® N 2320 C BK110

Acetal (POM) Copolymer

BASF Corporation

Message:

Ultraform N 2320 C BK110 is a pigmented black, Electro Statically Dissipative (ESD) POM for injection molding applications.

Applications

Typical applications include gas filler caps, fuel pump housings/caps, fuel flanges, reservoirs, and rollover valves, where dissipation of electrostatic charge is desired.

General Information			
Features	Copolymer		
Uses	Caps		
	Housings		
	Pump Parts		
	Valves/Valve Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	0.500	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.3	%	
Flow	2.3	%	
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	69.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	6.5	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	9.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Melting Temperature (DSC)	170	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 110	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	60.0 to 120	°C	
Injection Pressure	3.45 to 10.3	MPa	

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