Ultraform® N 2320 003 BK120 Q600

Acetal (POM) Copolymer

BASF Corporation

Message:

Ultraform N 2320 003 BK120 Q600 is a pigmented black, rapidly freezing general-purpose injection-molding POM grade. It contains a mold release agent.
Applications
Typical applications include spring elements, clips, gas filler caps, gears wheels, small motor parts, curtain hooks and release buttons for safety belts.

General Information			
Additive	Mold Release		
Features	Copolymer General Purpose		
Uses	Caps Gears General Purpose Springs		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.40	g/cm³	ISO 1183
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)	2810	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	62.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	10	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	25	%	ISO 527-2
Flexural Modulus (23°C)	2340	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.1	kJ/m²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	5.8	kJ/m²	
23°C	7.0	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	96.0	°C	ISO 75-2/A
Melting Temperature (DSC)	167	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	5.0E-3		
Comparative Tracking Index	600	V	IEC 60112
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	3.50 to 7.00	MPa	

Recommended distributors for this material

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