

Ultraform® N2320 003

Acetal (POM) Copolymer

BASF Corporation

Product Description
Rapidly solidifying standard grade for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Europe		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	• White
Forms	• Granules		
Processing Method	• Injection Molding		
Multi-Point Data	• Isochronous Stress vs. Strain (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2) • Specific Heat vs. Temperature (ISO 11403-2) • Specific Volume vs. Temperature (ISO 11403-2)	• Viscosity vs. Shear Rate (ISO 11403-2)
Resin ID (ISO 1043)	• POM		

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.50	cm ³ /10min	ISO 1133
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)	2700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	65.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	9.4	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	27	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	1400	MPa	ISO 899-1

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	190	kJ/m ²	
23°C	210	kJ/m ²	

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	145	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	100	°C	ISO 75-2/A
Melting Temperature	167	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	0.00011	cm/cm/°C	ISO 11359-2
Maximum Dynamic Service Temperature	100	°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohm·cm	IEC 60093
Relative Permittivity (23°C, 1 MHz)	3.80		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.0050		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.60 mm)	HB		UL 94

Additional Information
POM-K, M-GNR, 03-002

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, December 15, 2009

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	60.0 to 100	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

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