

Ultraform® N2310 P

Acetal (POM) Copolymer

BASF Corporation

Product Description
General-purpose injection molding grade containing special lubricant. Low frictional coefficient giving extremely low wear in combination with smooth metal surfaces.

General	
Material Status	• Commercial: Active
Availability	• Europe
Additive	• Lubricant
Features	• General Purpose • Low Friction • Good Wear Resistance • Lubricated
Uses	• General Purpose
RoHS Compliance	• RoHS Compliant
Forms	• Granules
Processing Method	• Injection Molding
Multi-Point Data	• Isochronous Stress vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2) • Isothermal Stress vs. Strain (ISO 11403-1) • Specific Heat vs. Temperature (ISO 11403-2) • Secant Modulus vs. Strain (ISO 11403-1) • Specific Volume vs. Temperature (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)	2600	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	61.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	9.3	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	31	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	1300	MPa	ISO 899-1

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	
23°C	5.3	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	180	kJ/m ²	
23°C	200	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	95.0	°C	ISO 75-2/A
Melting Temperature (DSC)	166	°C	ISO 3146
CLTE - Flow (23 to 55°C)	0.00011	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	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
Electric Strength (23°C)	85	kV/mm	IEC 60243-1

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

Additional Information

The value listed as Melting Temperature (DSC), ISO 3146, was tested in accordance with ISO 3146.
Electric Strength, IEC 60243-1, K20/P50, 23°C: 85 kV/mm
Maximum Service Temperature (Short Cycle Operation): 100°C
POM-K, M-GNRS2, 03-002

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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