

Ultraform® N2640 E2

Acetal (POM) Copolymer

BASF Corporation

Product Description
Elastomer modified injection molding grade with increased toughness and high welding line strength.

General	
Material Status	• Commercial: Active
Availability	• Europe
Features	• Good Toughness
RoHS Compliance	• RoHS Compliant
Forms	• Granules
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• POM-HI

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.90	%	
Equilibrium, 23°C, 50% RH	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	7.8	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	50	%	ISO 527-2/50

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.5	kJ/m ²	
23°C	9.0	kJ/m ²	

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	105	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	80.0	°C	
Melting Temperature (DSC)	166	°C	ISO 3146
CLTE - Flow (23 to 55°C)	0.00013	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohm·cm	IEC 60093
Relative Permittivity (23°C, 1 MHz)	3.50		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.0080		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Electric Strength (23°C)	85	kV/mm	IEC 60243-1

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-GNPR, 02-001

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 220	°C
Mold Temperature	60.0 to 80.0	°C

Notes

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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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