

# Ultraform® N2640 Z4 UNC Q600

Acetal (POM) Copolymer

BASF Corporation

## Product Description

Ultraform N 2640 Z4 UNC Q600 is a high toughness, elastomer-modified injection molding POM grade.

## General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Impact Modifier
Features	• Good Toughness • Impact Modified
Uses	• Automotive Exterior Parts • Fasteners • Toys
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
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)

## Physical

	Nominal Value	Unit	Test Method
Specific Gravity	--	1.35 g/cm <sup>3</sup>	ASTM D792
--	--	1350 kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt volume-flow rate (190°C/2.16 kg)	5.50 cm <sup>3</sup> /10min		ISO 1133 <sup>2</sup>
Molding Shrinkage			
Flow: 3.18 mm	1.9 %		ASTM D955
Across Flow	1.8 %		ISO 294-4
Flow	1.8 %		ISO 294-4
Water Absorption			
Saturation	0.80 %		ASTM D570 ISO 62 <sup>2</sup>
Equilibrium, 50% RH	0.25 %		ASTM D570
Equilibrium	0.25 %		ISO 62 <sup>2</sup>

## Mechanical

	Nominal Value	Unit	Test Method
Tensile modulus	1700 MPa		ISO 527-2 <sup>2</sup>
Tensile Strength			
Yield, 23°C	44.0 MPa		ASTM D638
Yield, 80°C	22.0 MPa		ISO 527-2
Yield	44.0 MPa		ISO 527-2 <sup>2</sup>
Tensile Elongation			
Yield, 23°C	14 %		ASTM D638
Yield	14 %		ISO 527-2 <sup>2</sup>
Nominal strain at break	> 50 %		ISO 527-2 <sup>2</sup>
Tensile Creep Modulus			ISO 899-1 <sup>2</sup>
1 hr	1350 MPa		
1000 hr	1000 MPa		
Flexural Modulus (23°C)	1660 MPa		ASTM D790

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://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

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA <sup>2</sup>
-30°C	8.00	kJ/m <sup>2</sup>	
23°C	13.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-30°C	300	kJ/m <sup>2</sup>	
23°C	No Break		
Notched Izod Impact			ASTM D256
-40°C	90.7	J/m	
23°C	149	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	140	°C	ASTM D648
1.8 MPa, Unannealed	77.0	°C	ASTM D648
1.8 MPa	75.0	°C	ISO 75-2 <sup>2</sup>
Melting Temperature	167	°C	ASTM D3418 ISO 3146
CLTE - Flow			
--	0.000070	cm/cm/°C	ASTM E831
--	0.00013	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>3</sup>	1.0E+14	ohms	ASTM D257 IEC 60093 <sup>2</sup>
Volume Resistivity			
1.50 mm	1.0E+11	ohm·cm	ASTM D257
--	1.0E+9	ohm·m	IEC 60093 <sup>2</sup>
Relative Permittivity			IEC 60250 <sup>2</sup>
100 Hz	4.20		
1 MHz	4.20		
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	110		
1 MHz	190		
Comparative tracking index	600		IEC 60112 <sup>2</sup>
Electric strength	40	kV/mm	IEC 60243-1 <sup>2</sup>
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	
Injection Rate	Fast		

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

<sup>3</sup> 1.5 mm

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