

Ultraform® N2640 Z6 UNC

Acetal (POM) Copolymer

BASF Corporation

Product Description

Ultraform N 2640 Z6 UNC is an elastomer-modified injection molding POM grade with excellent impact strength.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Additive	• Impact Modifier
Features	• Good Impact Resistance • Impact Modified
Uses	• Automotive Exterior Parts • Fasteners • Toys
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical

	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.33	g/cm ³	ASTM D792
--	1330	kg/m ³	ISO 1183 ²
Melt volume-flow rate (190°C/2.16 kg)	4.50	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			
Flow: 3.18 mm	1.9	%	ASTM D955
Across Flow	1.6	%	ISO 294-4
Flow	1.6	%	ISO 294-4
Water Absorption			
Saturation	1.1	%	ASTM D570 ISO 62 ²
Equilibrium, 50% RH	0.25	%	ASTM D570
Equilibrium	0.25	%	ISO 62 ²

Mechanical

	Nominal Value	Unit	Test Method
Tensile modulus	1300	MPa	ISO 527-2 ²
Tensile Strength			
Yield, 23°C	37.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2 ²
Tensile Elongation			
Yield, 23°C	17	%	ASTM D638
Yield	17	%	ISO 527-2 ²
Nominal strain at break	> 50	%	ISO 527-2 ²
Tensile Creep Modulus			ISO 899-1 ²
1 hr	825	MPa	
1000 hr	575	MPa	
Flexural Modulus (23°C)	1320	MPa	ASTM D790

Impact

	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ²
-30°C	9.00	kJ/m ²	
23°C	18.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Notched Izod Impact			ASTM D256
-40°C	59.0	J/m	
23°C	155	J/m	

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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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	129	°C	ASTM D648
1.8 MPa, Unannealed	71.0	°C	ASTM D648
1.8 MPa	70.0	°C	ISO 75-2 ²
Melting Temperature	166	°C	ASTM D3418 ISO 3146
CLTE - Flow			
--	0.000080	cm/cm/°C	ASTM E831
--	0.00013	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	1.0E+12	ohms	ASTM D257 IEC 60093 ²
Volume Resistivity			
1.50 mm	1.0E+11	ohm·cm	ASTM D257
--	1.0E+9	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	4.50		
1 MHz	4.30		
Dissipation Factor			IEC 60250 ²
100 Hz	100		
1 MHz	250		
Comparative tracking index	600		IEC 60112 ²
Electric strength	36	kV/mm	IEC 60243-1 ²
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	50.0	°C	UL 746
RTI Imp (1.50 mm)	50.0	°C	UL 746
RTI Elec (1.50 mm)	50.0	°C	UL 746
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

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

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

³ 1.5 mm

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