

# Ultraform® N2520 L

## Acetal (POM) Copolymer

### BASF Corporation

**Product Description**  
This grade has reduced electrical surface resistivity.

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

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00	cm <sup>3</sup> /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)	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	7.5	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	10	%	ISO 527-2/50

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.5	kJ/m <sup>2</sup>	
23°C	6.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	22	kJ/m <sup>2</sup>	
23°C	70	kJ/m <sup>2</sup>	

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	120	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Melting Temperature (DSC)	166	°C	ISO 3146
CLTE - Flow (23 to 55°C)	0.00012	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7	ohms	IEC 60093
Volume Resistivity	1.0E+5	ohm·cm	IEC 60093
Relative Permittivity (23°C, 1 MHz)	120		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.53		IEC 60250
Electric Strength (23°C)	85	kV/mm	IEC 60243-1

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-GRY, 03-002

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

#### Notes

<sup>1</sup> 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](http://www.kedisujiao.com)

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Tuesday, December 15, 2009

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