

Ultraform® N2520 XL2

Acetal (POM) Copolymer

BASF Corporation

Product Description

This grade has low electrical surface resistivity.

General

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

Physical	Nominal Value	Unit	Test Method
Density	1430	kg/m ³	ISO 1183 ²
Apparent Density	0.85	g/cm ³	ISO 60
Melt volume-flow rate (190°C/2.16 kg)	5.30	cm ³ /10min	ISO 1133 ²
Water Absorption			ISO 62 ²
Saturation	0.80	%	
Equilibrium	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	3350	MPa	ISO 527-2 ²
Tensile Stress (Break)	37.0	MPa	ISO 527-2 ²
Tensile Strain (Break)	1.3	%	ISO 527-2 ²

Impact	Nominal Value	Unit	Test Method
Charpy impact strength			ISO 179/1eU ²
-30°C	20.0	kJ/m ²	
23°C	24.0	kJ/m ²	

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 961/30)	179	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	116	°C	ISO 75-2 ²
Melting Temperature ³	166	°C	ISO 11357-3 ²
CLTE - Flow (23 to 55°C)	0.00012	cm/cm/°C	ISO 11359-2
Maximum Service Temperature			
Short Cycle Operation	100	°C	

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	3.0E+3	ohms	IEC 60093 ²
Volume resistivity	0.20	ohm·m	IEC 60093 ²

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

Additional Information	Nominal Value	Unit
ISO Type	POM-K, M-GRY, 02-002	

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.

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

³ 10 °C/min

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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