

Ultraform® N 2644 Z9

Acetal (POM) Copolymer + PUR

BASF Corporation

Message:

Elastomer modified injection molding grade for applications requiring low modulus. Good acoustic damping.

General Information			
Additive	Impact modifier		
Features	Impact modification		
	Noise reduction		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particles		
Processing Method	Injection molding		
Resin ID (ISO 1043)	POM-HI		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.5	%	ISO 294-4
Flow direction	1.2	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	30.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	700	MPa	ISO 527-2
Tensile Stress (Yield)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	25	%	ISO 527-2/50
Nominal Tensile Strain at Break	50	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m ²	ISO 179/1eA
23°C	8.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	°C	ISO 75-2/A
Melting Temperature	164	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.4E-4	cm/cm/°C	ISO 11359-2
Maximum operating temperature-short cycle operation	100	°C	
Automotive Materials (> 1.00 mm)	Pass		FMVSS 302
ISO Type	POM-K, M-GNPR, 04-001		ISO 9988-1
Screw Speed		mm/sec	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Dielectric Strength	85	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.026		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112

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

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.20	%
Hopper Temperature	200	°C
Rear Temperature	200	°C
Middle Temperature	200	°C
Front Temperature	200	°C
Nozzle Temperature	200	°C
Processing (Melt) Temp	190 - 215	°C
Mold Temperature	60.0 - 80.0	°C

Injection instructions

Residence Time : <10 min.

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