

UNITAL® LZU

Acetal (POM) Copolymer

Nytec Plastics, Ltd.

Message:

UNITAL LZ and UNITAL LZU are copolymer acetal materials capable of being permanently marked utilizing standard industrial lasers. UNITAL LZ is standard copolymer acetal, while UNITAL LZU is a UV stabilized formulation designed for use where significant or prolonged exposure to ultraviolet light, either natural sunlight or artificial lighting, is anticipated.

Component parts machined from either product can be marked by laser with company logo's, part numbers, serial numbers, barcodes or other two dimensional designs.

UNITAL LZ and UNITAL LZU are available in rod or sheet form and are black in color, with laser marked characters and designs appearing white in color.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Good UV Resistance		
	Laser Markable		
Appearance	Black		
Forms	Rod		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	0.75	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2700	MPa	ISO 527-2/1A
Tensile Stress (Yield, Injection Molded)	63.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, Injection Molded)	9.0	%	ISO 527-2/1A/50
Flexural Modulus (23°C, Injection Molded)	2670	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	4.7	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C, Injection Molded)	5.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°C	ISO 75-2/A
Melting Temperature	167	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.0E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	

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Recommended distributors for this material

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