

## Kolon KOCETAL<sup>®</sup> LW701 Wear Modified Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Special polymer added, improved wear property. Applications: Products for low noise and precision gear. Information provided by API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-KOCETAL-LW701-Wear-Modified-Acetal-Resin.php](http://www.lookpolymers.com/polymer_Kolon-KOCETAL-LW701-Wear-Modified-Acetal-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.21 %	0.21 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM D955
Melt Flow	26 g/10 min	26 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	130 Åµm/m-Å°C	72.2 Åµin/in-Å°F	ASTM D696
Melting Point	166 Å°C	331 Å°F	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	158 Å°C	316 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

Surface Resistance Electrical Properties	1.00e+16 ohm Metric	1.00e+16 ohm English	ASTM D257 Comments
Dielectric Constant	3.7	3.7	ASTM D150
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.0060 @Frequency 1.00e+6 Hz	0.0060 @Frequency 1.00e+6 Hz	ASTM D150

## Contact Songhan Plastic Technology Co.,Ltd.

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