

## Product Information

### Weather Resistant Grade

#### KOCETAL<sup>®</sup>

KOCETAL<sup>™</sup> refers to polyacetal resin of a copolymer type. And is a material of an excellent quality with features of excellent anti-friction/anti-wear, chemical-resistance, heat-resisting stability, precise dimensions and molding abilities. It is mainly applied in gear or roller, and is used for various purposes over the fields of cars, office equipment and living materials. Following POM (Brand name: made by our independent technology development, Kolon Plastics has developed low-VOCs (volatile KOCETAL) products that are organic chemicals) POM resin of the world-best quality with almost no emission during the process of formaldehyde that is harmful to human body for the first time in Korea.

#### KOCETAL<sup>®</sup> WR301

: KOCETAL<sup>®</sup> WR301 is U.V. stabilized grade suitable for out door applications.

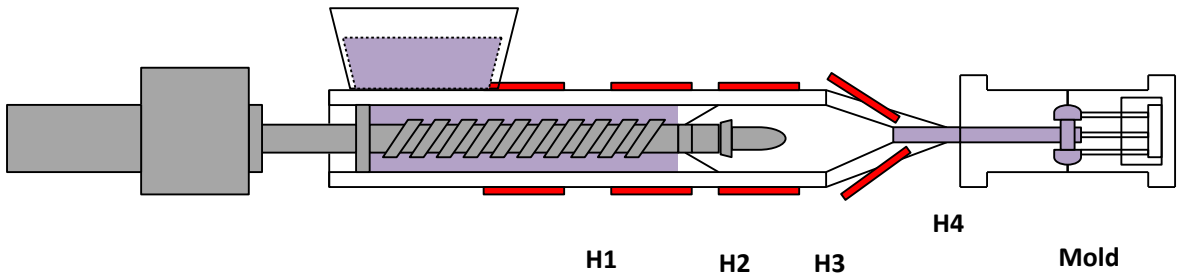
Properties		Test Method	Unit	Value
Physical				
Specific Gravity		ISO 1183	-	1.41
Melt Index (190°C, 2.16kg)		ISO 1133	g/10min	10.0
Shrinkage	Flow/Transverse	ISO 294	%	2.32/2.43
Water Absorption	23°C, H <sub>2</sub> O, 24hr	ISO 62	%	0.93
Mechanical				
Tensile Strength	23°C	ISO 527-1/2	MPa	62
Tensile Elongation	23°C	ISO 527-1/2	%	40
Flexural Strength	23°C	ISO 178	MPa	83
Flexural Modulus	23°C	ISO 178	MPa	2,600
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m <sup>2</sup>	7.0
Rockwell Hardness		ISO 2039-2	M scale	80
Thermal				
Melting Point		ISO 11357-1	°C	166
Heat Deflection Temperature		ISO 75		
	1.8 MPa		°C	90
Flammability(0.8mm)		UL94		HB



**Electrical**

Dielectric strength	IEC 60243	kV/mm	19
Volume Resistivity	IEC 60093	$\Omega \cdot \text{cm}$	$1 \times 10^{14}$
Surface Resistivity	IEC 60093	$\Omega$	$1 \times 10^{16}$

**Processing Guide (Injection Molding)**



	H1	H2	H3	H4
Cylinder Temperature(°C)	180	190	190	200
Mold Temperature(°C)	60~80			
Limitation of Processing Temp. (°C)	220			
Pre-drying	80~90°C, 3 hrs			

