

## Product Information

### Standard 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> K100

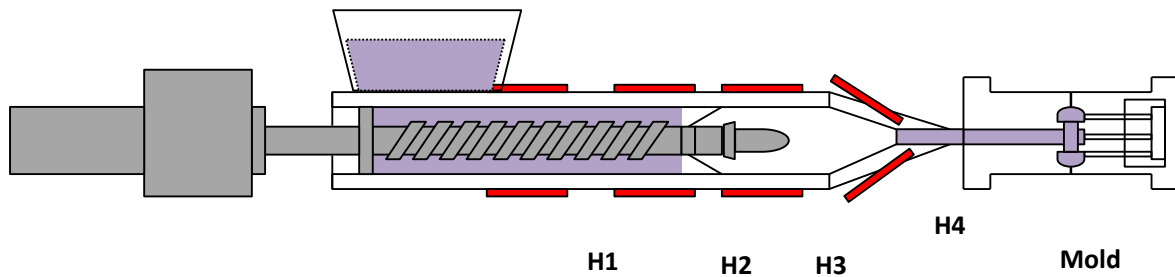
: KOCETAL<sup>®</sup> K100 is high-viscosity grade and suitable for extrusion and injection moldings.

Properties	Test Method	Unit	Value	
<b>Physical</b>				
Specific Gravity	ISO 1183	g/cm <sup>3</sup>	1.41	
Melt Index (190°C, 2.16kg)	ISO 1133	g/10min	3.0	
Shrinkage	Flow/Transverse	%	2.49/2.02	
Water Absorption	23°C, H <sub>2</sub> O, 24hr	%	0.6	
<b>Mechanical</b>				
Tensile Strength	23°C	ISO 527-1/2	MPa	60
Tensile Elongation	23°C	ISO 527-1/2	%	44
Flexural Strength	23°C	ISO 178	MPa	80
Flexural Modulus	23°C	ISO 178	MPa	2,450
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m <sup>2</sup>	7.3
Rockwell Hardness		ISO 2039-1	M scale	87
<b>Thermal</b>				
Melting Point		ISO 11357-1	°C	165
Heat Deflection Temperature		ISO 75	°C	95
	1.8 MPa		°C	95
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			

The above-mentioned data was measured by Kolon Plastics, inc., under certain conditions and environment. Therefore, it can not be compared with the data measured under different conditions and environment. And not guaranteed and no warranty. If other additives and pigments are used on this product, The above data cannot be applied. The data can not be used as the evidence of legal proceedings.

## Contact

[www.kolonplastics.com](http://www.kolonplastics.com)