

## Product Information

### High-Strength 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> K100HS

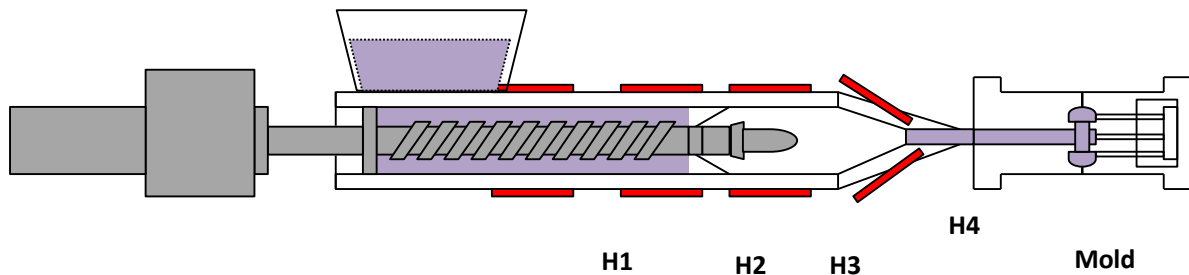
: KOCETAL<sup>®</sup> K100HS is suitable for injection moldings with high-strength and improved processing.

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	ISO 294	%	2.49/2.02
Water Absorption	23°C, H <sub>2</sub> O, 24hr	ISO 62	%	0.59
<b>Mechanical</b>				
Tensile Strength	23°C	ISO 527-1/2	MPa	66
Tensile Elongation	23°C	ISO 527-1/2	%	40
Flexural Strength	23°C	ISO 178	MPa	90
Flexural Modulus	23°C	ISO 178	MPa	2,700
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m <sup>2</sup>	10.5
Rockwell Hardness		ISO 2039-1	M scale	93
<b>Thermal</b>				
Melting Point		ISO 11357-1	°C	172
Heat Deflection Temperature		ISO 75		
	1.8 MPa		°C	100
Flammability(0.8mm)		UL94		HB

## Electrical

Dielectric strength	IEC 60243	kV/mm	19
Volume Resistivity	IEC 60093	$\Omega$ -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)