

KOCETAL® K300

Technical DataSheet | Supplied by Kolon Plastics (Kolon Industries)

KOCETAL® K300 by Kolon Plastics (Kolon Industries) is a general purpose, medium viscosity polyacetal polyoxymethylene copolymer grade. Imparts good processability, high toughness, high crystallinity and does not deflect over the heat deflection temperature. It possesses good mechanical strength, high stiffness, and good dimensional stability. It exhibits heat-, friction-, chemical-, oil and wear resistance. It is suitable for processing by injection molding. Used in gears, roller, cars and office equipment. It is recommended for electrical/electronics, agriculture, buildings & constructions and automotive applications like fuel pump, fuel cap and have switch shaft & cam. KOCETAL® K300 complies with RoHS, ISO 9001, ISO/TS 16949, ISO 14001 and KS I 7001/7002 certificates.

Product Type	POM (Polyacetal, Polyoxymethylene) > POM Copolymer
Physical Form	Pellets
Appearance	Natural
Product Status	COMMERCIAL
Applications/ Recommended for	Electronics / Computers Electrical markets Gears Engineering / manufacturing > Tools & equipments Automotive > Fuel systems - Fuel pump Agriculture Buildings & constructions > Shutters / roller shutters Automotive > Internal - Panels (car body panels) Injection molding - thermoplastics
Labels/Agency Rating	RoHS, ISO 9001, ISO/TS 16949, ISO 14001, KS I 7001/7002
Key Features	Chemical resistance, Good Copolymer Crystallinity, High Dimensional stability, Good Heat Resistance, High Oil Resistant Stiffness, High Strength, Good Friction, Low

KOCETAL® K300 Properties

Thermal	Value & Unit	Test Condition	Test Method
---------	--------------	----------------	-------------

Melting Point	167 °C	At 20/min	ISO 11357-1
----------------------	--------	-----------	-------------

Deflection Temperature at 1.8 MPa (264 psi)	95 °C		ISO 75
--	-------	--	--------

Mechanical	Value & Unit	Test Condition	Test Method
-------------------	--------------	----------------	-------------

Flexural Strength	85 MPa	2 mm/min	ISO 178
--------------------------	--------	----------	---------

Flexural Modulus	2.650 MPa	2 mm/min	ISO 178
-------------------------	-----------	----------	---------

Hardness, Rockwell M	80		ISO 2039-2
-----------------------------	----	--	------------

Impact Strength, Notched Charpy	7.0 kJ/m²	At 23°C	ISO 179/1eA 2
--	-----------	---------	---------------

Tensile Strength, Yield	64 MPa	50 mm/min	ISO 527
--------------------------------	--------	-----------	---------

Elongation at Break	30 %	50 mm/min	ISO 527
----------------------------	------	-----------	---------

Tensile Strain	12 %	At Yield, 50 mm/min	ISO 527
-----------------------	------	---------------------	---------

Flammability	Value & Unit	Test Condition	Test Method
---------------------	--------------	----------------	-------------

Flame Rating, UL 94	HB	0.8 mm	UL 94
----------------------------	----	--------	-------

Physical	Value & Unit	Test Condition	Test Method
-----------------	--------------	----------------	-------------

Melt Mass-Flow Rate (MFR or MFI = Melt Flow Index or MI = Melt Index)	9.5 g/10 min	At 190°C, 2.16 kg	ISO 1133
--	--------------	-------------------	----------

Melt-Volume Flow Rate	8.5 cm³/10 min	At 190°C, 2.16 kg	ISO 1133
------------------------------	----------------	-------------------	----------

Linear Mold Shrinkage	1.8 - 2.2 %	ISO 294-4
Specific Gravity	1.41	ISO 1183
Water Absorption	0.22 %	At 23, 50% RH ISO 62

KOCETAL® K300 Processing Guidelines

Injection Molding	Value & Unit	Test Condition	Test Method
Mold Temperature	60 - 80 °C		
Drying Temperature	80 - 90 °C		
Drying Time	3 - 5 hr		
Moisture Content	< 0.1 %		
Cylinder Nozzle Temperature	180 - 200 °C		
Cylinder Front Temperature	180 - 200 °C		
Cylinder Middle Temperature	170 - 190 °C		
Limitation Of Processing (Melt) Temp	220 °C		
Cylinder Rear Temperature	160 - 180 °C		

Help us improve the Universal Selector

You can't find what you are looking for? Please report missing products / suppliers, point out errors, or simply tell us how we could make the Universal Selector better.