

KOCETAL® K300

Acetal (POM) Copolymer

Kolon Plastics, Inc.

PROSPECTOR®

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Technical Data

Product Description

Kocetal K300 is a general injection molding grade with a good mechanical property for wide range.

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Kocetal (English) • Processing (English) • Technical Datasheet (English)
UL Yellow Card ²	• E190675-238633
Search for UL Yellow Card	• Kolon Plastics, Inc. • KOCETAL®
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• General Purpose
Uses	• General Purpose
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.41	1.41 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.020 in/in	2.0 %	ASTM D955
Water Absorption Equilibrium, 73°F (23°C), 60%RH	0.22 %	0.22 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength	9280 psi	64.0 MPa	ASTM D638
Tensile Elongation (Yield, 73°F (23°C))	60 %	60 %	ASTM D638
Flexural Modulus (73°F (23°C))	363000 psi	2500 MPa	ASTM D790
Flexural Strength (73°F (23°C))	13600 psi	94.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.3 ft·lb/in	67 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (M-Scale)	80	80	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	316 °F	158 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	230 °F	110 °C	
Vicat Softening Temperature	324 °F	162 °C	ASTM D1525
Melting Temperature ⁴	331 °F	166 °C	ASTM D3418
CLTE - Flow	7.2E-5 in/in/°F	1.3E-4 cm/cm/°C	ASTM D696
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+16 ohm	1.0E+16 ohm	ASTM D257
Volume Resistivity	1.0E+14 ohm·cm	1.0E+14 ohm·cm	ASTM D257
Dielectric Strength	480 V/mil	19 kV/mm	ASTM D149
Dielectric Constant	3.70	3.70	ASTM D150
Dissipation Factor (1 MHz)	6.0E-3	6.0E-3	ASTM D150
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94



Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 10°C/min

