

Kolon KOCETAL[®] K100

Suitable for extrusion and injection molding of thick products.
Applications: Extruded use such as rod, pipe, tube, and sheet

Information provided by API Kolon.

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792

Moisture Absorption at Equilibrium	0.22 %	0.22 %	60% RH; ASTM D570
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Linear Mold Shrinkage	0.022 cm/cm	0.022 in/in	ASTM D955
Melt Flow	2.5 g/10 min	2.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D785
Tensile Strength	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.870 J/cm	1.63 ft-lb/in	ASTM D256

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.0060 @Frequency 1e+6 Hz	0.0060 @Frequency 1e+6 Hz	ASTM D150

Thermal Properties	Metric	English	Comments
CTE, linear	130 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
Melting Point	166 $^\circ\text{C}$	331 $^\circ\text{F}$	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	158 $^\circ\text{C}$	316 $^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 $^\circ\text{C}$	230 $^\circ\text{F}$	ASTM D648
Vicat Softening Point	162 $^\circ\text{C}$	324 $^\circ\text{F}$	ASTM D1525

Flammability, UL94	HB	HB
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