

**Dayson Polymers, LLC**  
**KOLON® (POM) Acetal Copolymer**  
**Kocetal Property Data Sheet**  
**K500**

Property	Test Condition	Nominal Values (English)	Test Method
<b>Physical</b>			
Density – Specific Gravity	sp gr 23/23°C	1.41	ASTM 792
Melt Flow Rate	(190°C.2.16kg – E)	14 g/10 min	ASTM D1238
Mold Shrink, Linear-Flow	in/in	0.020	ASTM 955
Water Absorption @ Sat.	%	.22	ASTM D570
<b>Mechanical</b>			
Tensile Strength		9,100 psi	ASTM D638
Tensile Elongation @ Break	%	65	ASTM D638
Flexural Modulus		384,030 psi	ASTM D790
Flexural Strength		12,100 psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact	ft-lb/in	1.29	ASTM D256
<b>Hardness</b>			
Rockwell Hardness	M-Scale	82	ASTM D785
<b>Thermal</b>			
DTUL @ 264 psi - Unannealed		230 °F	ASTM D648
DTUL @ 66 psi - Unannealed		320 °F	ASTM D648
Melting Point		331 °F	
CLTE, Flow	in/in/°F	6.7E-005	ASTM D696
<b>Electrical</b>			
Surface Resistivity		1.0E+016 ohms	ASTM D257
Volume Resistivity		1.0E+014 ohm-cm	ASTM D257
Dielectric Strength	V/mil	483	ASTM D149
Dielectric Constant	1000000 Hz	3.700	ASTM D150
Dissipation Factor	1000000 Hz	0.0060	ASTM D150
Arc Resistance		200 sec	ASTM D495
<b>Ignition Characteristics</b>			
Flame Rating – UL		HB	UL94

**GENERAL INJECTION MOLDING**

**KOCETAL® IS A REGISTERED TRADEMARK OF KTP INDUSTRIES INC.**

Remark: The values presented on the above are typical laboratory averages. All data generated is based on natural material. To the best of our knowledge the information contained in this publication is accurate, however, we do not assume any liability whatsoever for the accuracy or completeness of such information. Since we have no control over the use to which others may put our product, we cannot guarantee that results will be the same as those described in this publication will be obtained. The buyer assumes sole responsibility for results obtained in reliance upon this publication. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves as to such suitability and they can meet all applicable safety and health standards.