

Dayson Polymers, LLC
KEPITAL® Acetal (POM) Copolymer Data Sheet
F25 Medium Low Viscosity

Property	Test Condition	Nominal Values (English)	Test Method
Physical			
Density – Specific Gravity	sp gr 23/23°C	1.41	ASTM 792
Melt Flow Rate		16 g/10 min	ASTM D1238
Mold Shrink, Linear-Flow	in/in	0.020	ASTM 955
Water Absorption @ 24 hrs	%	.22	ASTM D570
Mechanical			
Tensile Strength @ Yield		8,950 psi	ASTM D638
Tensile Elongation @ Yield	%	55	ASTM D638
Flexural Modulus		379,407 psi	ASTM D790
Flexural Strength @ Yield		13,100 psi	ASTM D790
Shear Strength		7,960 psi	ASTM D732
Impact			
Notched Izod Impact (0.126in)	ft-lb/in	1.10	ASTM D256
Tensile Impact Strength (0.0630in)	ft-lb/in ²	56.0	ASTM D1822
Hardness			
Rockwell Hardness	M-Scale	80	ASTM D785
Thermal			
DTUL @ 264 psi - Unannealed		230 °F	ASTM D648
DTUL @ 66 psi - Unannealed		316 °F	ASTM D648
Melting Point		329 °F	
CLTE, Flow	in/in/°F	7.2E-006	ASTM D696
Electrical			
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	0.0070	ASTM D150
Ignition Characteristics			
Flame Rating – UL (0.0315 in)		HB	UL94
Flame Rating – UL (0.252in)		HB	UL94

INJECTION MOLDING: ELECTRICAL PARTS, MACHINE/MECHANICAL PARTS, INDUSTRIAL PARTS, AUTOMOTIVE APPLICATIONS, ELECTRONIC DATA PROCESSING
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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.

-02 Standard; -03 Thermal Stability; -33 Toughness Improved & High Cycle; -34 Mold Deposit Improved