

Dayson Polymers, LLC
KEPITAL® Acetal (POM) Copolymer Data Sheet
Standard Grade/Low Viscosity
F40

Property	Test Condition	Nominal Values (English)	Test Method
Physical			
Density – Specific Gravity	sp gr 23/23°C	1.41	ASTM 792
Melt Flow Rate		45 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		9,020 psi	ASTM D638
Tensile Elongation @ Yield	%	45	ASTM D638
Flexural Modulus		379,407 psi	ASTM D790
Flexural Strength @ Yield		12,800 psi	ASTM D790
Shear Strength		7,960 psi	ASTM D732
Impact			
Notched Izod Impact (0.126in)	ft-lb/in	.92	ASTM D256
Tensile Impact Strength (0.0630in)	ft-lb/in ²	46.7	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 (0.252 in)		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.

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