

**Dayson Polymers, LLC**  
**KEPITAL® Acetal (POM) Copolymer Data Sheet**  
**Standard Grade/Low Viscosity**  
**F30**

Property	Test Condition	Nominal Values (English)	Test Method
<b>Physical</b>			
Density – Specific Gravity	sp gr 23/23°C	1.14	ASTM 792
Melt Flow Rate	(190°C.2.16kg – E)	27 g/10 min	ASTM D1238
Mold Shrink, Linear-Flow	in/in	0.020	ASTM 955
Water Absorption @ 24 hrs	%	.22	ASTM D570
Water Absorption @ Saturation	%	0.16	ASTM D570
<b>Mechanical</b>			
Tensile Modulus		415,000 psi	ASTM D638
Tensile Strength @ Yield		9,020 psi	ASTM D638
Tensile Elongation @ Yield	%	50	ASTM D638
Flexural Modulus		379,407 psi	ASTM D790
Flexural Strength @ Yield		13,200 psi	ASTM D790
Shear Strength		7,960 psi	ASTM D732
<b>Impact</b>			
Notched Izod Impact	ft-lb/in	1.01	ASTM D256
Unnotched Izod Impact	ft-lb/in	20.2	ASTM D256
Tensile Impact Strength (0.0630in)	ft-lb/in <sup>2</sup>	46.7	ASTM D1822
<b>Hardness</b>			
Rockwell Hardness	M-Scale	80	ASTM D785
<b>Thermal</b>			
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	5.0E-005	ASTM D696
<b>Electrical</b>			
Surface Resistivity		1.0E+016 ohms	ASTM D257
Volume Resistivity		1.0E+014 ohm-cm	ASTM D257
Dielectric Constant	1000000 Hz	3.700	ASTM D150
Dissipation Factor	1000000 Hz	0.0070	ASTM D150
Arc Resistance (0.125in)	sec	200	ASTM D495
<b>Ignition Characteristics</b>			
Flame Rating – UL (0.125in)		HB	UL94
Flame Rating – UL (0.250 in)		HB	UL94

**INJECTION MOLDING: ELECTRICAL 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