

Dayson Polymers, LLC
KEPITAL® Acetal (POM) Copolymer Data Sheet
F20-52 Weather Resistant/UV Stabilized

Property	Test Condition	Nominal Values (English)	Test Method
Physical			
Density – Specific Gravity	sp gr 23/23°C	1.41	ASTM 792
Melt Flow Rate	(190°C.2.16kg – E)	10 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		8,250 psi	ASTM D638
Tensile Elongation @ Break	%	55	ASTM D638
Flexural Modulus		335,600 psi	ASTM D790
Flexural Strength		11,700 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	51.0	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

HIGH WEATHER RESISTANCE, U.V. STABILIZED: 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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