

## DELRIN® 527UV black - Stock Shapes (rods, plates, tubes)

### Chemical Designation

POM-H (Polyacetal (Homopolymer))

### Colour

black

### Density

1.41 g/cm<sup>3</sup>

### Fillers

UV stabilizer

### Main features

- very good UV and weather resistance
- improved surface hardness
- good machinability
- very good mechanical strength

### Target Industries

- automotive industry
- agricultural machinery
- construction industry
- solar systems

<b>Mechanical properties</b>	<b>condition</b>	<b>value</b>	<b>test method</b>	<b>comment</b>
Modulus of elasticity (tensile test)	@ 73 °F	420,000	psi	ASTM D 638
Tensile strength at yield	@ 73 °F	10,300	psi	ASTM D 638
Elongation at break (tensile test)	@ 73 °F	15	%	ASTM D 638
Flexural strength	@ 73 °F	13,500	psi	ASTM D 790
Modulus of elasticity (flexural test)	@ 73 °F	490,000	psi	ASTM D 790
Impact strength (Izod)	@ 73 °F	1.25	ft-lbs/in	ASTM D 256
Rockwell hardness	M Scale	89		ASTM D 785
Rockwell hardness	R Scale	120		ASTM D 785
<b>Thermal properties</b>	<b>condition</b>	<b>value</b>	<b>test method</b>	<b>comment</b>
Melting temperature		352	°F	-
Deflection temperature	@ 66 psi	325	°F	ASTM D 648
Deflection temperature	@ 264 psi	198	°F	-
Service temperature	Long Term	185	°F	-
Thermal expansion (CLTE)		$6.1 \times 10^{-5}$	in/in/°F	-
<b>Other properties</b>	<b>condition</b>	<b>value</b>	<b>test method</b>	<b>comment</b>
Moisture absorption	@ 24 hrs, 73 °F	0.14	%	ASTM D 570
Flammability (UL94)		HB		-
				(1) Data obtained from public source
				1)

- Resin specification:  
ASTM D6778-06 POM0132 superseding ASTM D4181-00 POM132
- Shapes specification:  
ASTM D6100 POM01601222434

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