

## 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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>	
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		
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>	
Melting temperature		352	°F	-	1)	(1) Injection molded data
Deflection temperature	@ 66 psi	325	°F	ASTM D 648	2)	(2) Injection molded data
Deflection temperature	@ 264 psi	198	°F	-	3)	(3) Injection molded data
Service temperature	Long Term	185	°F	-	4)	(4) Injection molded data
Thermal expansion (CLTE)		6.1*10 <sup>-5</sup>	in/in/°F	-	5)	(5) Injection molded data
<i>Other properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>	
Moisture absorption	@ 24 hrs, 73 °F	0.14	%	ASTM D 570		(1) Data obtained from public source
Flammability (UL94)		HB		-	1)	

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

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Ensinger Inc. Headquarters  
365 Meadowlands Boulevard  
Washington, PA 15301, USA

Phone 800-243-3221 Sales  
Phone 800-869-4029 Technical  
Fax 724-746-9209  
[sales@ensingerusa.com](mailto:sales@ensingerusa.com)

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