

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

Chemical Designation

POM-H (Polyacetal (Homopolymer))

Colour

black

Density

1.41 g/cm³

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

Mechanical properties	condition	value	unit	test method	comment
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	
Thermal properties	condition	value	unit	test method	comment
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 ⁻⁵	in/in/°F	-	5) (5) Injection molded data
Other properties	condition	value	unit	test method	comment
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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