

PolyOne Lubri-Tech™ 5209 S2 Natural A Acetal Copolymer, 9 Melt with Silicone (discontinued **)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Silicone Filled

Material Notes:

Information provided by PolyOne™ Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Lubri-Tech-5209-S2-Natural-A-Acetal-Copolymer-9-Melt-with-Silicone-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Water Absorption	0.050 %	0.050 %	24 Hr; ASTM D570
Linear Mold Shrinkage	0.022 - 0.024 cm/cm	0.022 - 0.024 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Tensile Modulus	2.34 GPa	340 ksi	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D648

Thermal Properties	Metric	English	Comments
CTE, linear	234 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	130 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 $^{\circ}\text{C}$	185 $^{\circ}\text{F}$	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	188 - 210 $^{\circ}\text{C}$	370 - 410 $^{\circ}\text{F}$	
Mold Temperature	48.9 - 82.2 $^{\circ}\text{C}$	120 - 180 $^{\circ}\text{F}$	
Drying Temperature	82.2 $^{\circ}\text{C}$	180 $^{\circ}\text{F}$	

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