

DELTRIN 500SC NC010

Delrin USA, LLC - Acetal (POM) Homopolymer

General Information
General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• Lubricant • Mold Release • Silicone Lubricant
Features	• Good Mold Release • Lubricated • Homopolymer • Medium Viscosity
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >POM-SD<
Resin ID (ISO 1043)	• POM-SD

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	435000	psi	ISO 527-1
Tensile Stress (Yield)	9570	psi	ISO 527-2
Tensile Strain (Yield)	21	%	ISO 527-2
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	421000	psi	ISO 178
Flexural Stress (3.5% Strain)	10900	psi	ISO 178
Poisson's Ratio	0.37		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.0	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	130	ft·lb/in ²	ISO 179/1eU
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	84		
R-Scale	117		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	316	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	205	°F	ISO 75-2/A
Melting Temperature ²	349	°F	ISO 11357-3
CLTE - Flow			ISO 11359-2
--	5.6E-5	in/in/°F	
-40 to 73°F	5.6E-5	in/in/°F	
CLTE - Transverse			ISO 11359-2
--	6.1E-5	in/in/°F	
-40 to 73°F	6.1E-5	in/in/°F	
Flammability	Nominal Value	Unit	Test Method
Burning Rate ³ (0.0394 in)	< 3.1	in/min	ISO 3795
FMVSS Flammability	B		FMVSS 302

