

ISOTAL™ C9W

Acetal (POM) Copolymer

SABIC Innovative Plastics Europe

Message:

General purpose, unfilled polyacetal (POM) copolymer resin.

Isotal C9W has been approved by the Water Research Council in accordance with The Water Byelaws Scheme, "ITEMS WHICH HAVE PASSED FULL TESTS OF EFFECT OM WATER QUALITY - BS6920" for use in potable water applications in contact with cold water and hot water up to 85°C. Isotal C9W will be included in the Water Fittings and Materials Directory, Part Two, under number 9811505.

General Information			
Features	Copolymer		
	General Purpose		
Uses	Fittings		
	General Purpose		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	2.1 to 2.9	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ISO 2039-2
Ball Indentation Hardness (H 358/30)	140	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	13	%	
Break	50	%	
Flexural Modulus	2400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	7.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/B120

Electrical	Nominal Value	Unit	Test Method
Electric Strength (in Air)	25	kV/mm	IEC 60243-1
Injection	Nominal Value	Unit	
Processing (Melt) Temp	185 to 200	°C	
Mold Temperature	75.0 to 95.0	°C	
Injection Pressure	74.9	MPa	
Injection Rate	Moderate		

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