

ISOTAL™ C13F

Acetal (POM) Copolymer

SABIC Innovative Plastics Europe

Message:

Unfilled polyacetal (POM) copolymer injection molding resin, suitable for the manufacturing of applications in contact with food stuffs such as parts for food processing machines and food packaging.

The formulation of these products complies with the German "Bedarfsgegenstandeverordnung" of 10.04.1992 (adapted 23.12.97) and the "Empfehlung XXIII" (Edition 1995) of the Plastics Committee of the "Bundesinstitutes fur gesundheitlichen Verbraucherschutz und Veterinarmedizin". Prospective users of these materials are advised to check the relevant local regulations with regards to applications in contact with food stuffs.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
Uses	Food Packaging		
	Non-specific Food Applications		
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)	13	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.4 to 2.0	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.16	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Ball Indentation Hardness (H 358/30)	130	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	62.0	MPa	
Break	48.0	MPa	
Tensile Strain			ISO 527-2
Yield	9.0	%	
Break	30	%	
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	150	°C	ISO 306/B120
Electrical	Nominal Value	Unit	Test Method
Electric Strength (in Air)	25	kV/mm	IEC 60243-1

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