

Celcon® M-90 (TECAFORM AH IM natural)

Chemical Designation

POM-C (Polyacetal (Copolymer))

Colour

natural

Density

1.41 g/cm³

Main features

good wear properties
low water absorption
good chemical resistance
high dimensional stability
for injection moulding

Target Industries

food technology
food processing
agricultural machinery
construction industry
conveyor technology
automotive industry
gear manufacturing
packaging and paper machinery
heavy duty industry

Mechanical properties	parameter	value	unit	norm	comment
Modulus of elasticity (tensile test)	@ 73 F	400,000	psi	DIN EN ISO 527-2	
Tensile strength at yield	@ 73 F	8,800	psi	ASTM D 638	
Modulus of elasticity (flexural test)	@ 73 F	370,000	psi	DIN EN ISO 178	
Notched impact strength (Charpy)	@ 73 F	2.9	ft-lbs/in	DIN EN ISO 179-1eU	
Thermal properties	parameter	value	unit	norm	comment
Melting temperature		329	°F	ASTM D 3418	
Deflection temperature	@ 66 psi	316	°F	ASTM D 648	
Deflection temperature	@ 264 psi	230	°F	ASTM D 648	
Thermal expansion (CLTE)		6.7E-5	in/in/°F	DIN EN ISO 11359-1;2	
Electrical properties	parameter	value	unit	norm	comment
surface resistivity		3.0E+16	Ω	-	1) (1) IEC 600093
volume resistivity		8.0E+14	Ω*cm	ASTM D 257	
Other properties	parameter	value	unit	norm	comment
Moisture absorption	Equilibrium, 73°F, 50% RH	0.20	%	-	1) (1) ISO 62 (2) ISO 62
Moisture absorption	Saturation, 73°F	0.75	%	-	2)

This material can be processed as a thermoplastic taking the normal technical provisions into account. The above mentioned information refers exclusively to the injection moulding process.

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