

Technical Data Sheet

POM-C (Polyacetal Copolymer) (Metal Detectable) Grey (WCMMDACETALGR)

Density	1.49 g/cm ³
Fillers	detectable filler
Main features	good slide and wear properties high stiffness good machinability high strength good chemical resistance detectable via metal detector difficult to bond high toughness
Target Industries	food technology, mechanical engineering



PLASTICS

MECHANICAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Modulus of elasticity (Tensile test)	1mm/min	3200	Mpa	DIN EN ISO 527-2
Tensile strength	50mm/min	68	Mpa	DIN EN ISO 527-2
Tensile strength at yield	50mm/min	68	Mpa	DIN EN ISO 527-2
Elongation at yield	50mm/min	8	%	DIN EN ISO 527-2
Elongation at break	50mm/min	10	%	DIN EN ISO 527-2
Flexural strength	2mm/min, 10 N	100	Mpa	DIN EN ISO 178 2
Modulus of elasticity (Flexural test)	2mm/min, 10 N	3100	Mpa	DIN EN ISO 178
Compression strength	1% / 2% / 5% 5mm/min, 10 N	17/31/69	Mpa	EN ISO 604
Compression modulus	5mm/min, 10 N	2400	Mpa	EN ISO 604
Impact strength (Charpy)	max. 7,5J	59	kJ/m ²	DIN EN ISO 179-1eU
Notched impact strength (Charpy)	max. 7,5J	11	kJ/m ²	DIN EN ISO 179-1eA
Ball indentation hardness		174	Mpa	ISO 2039-1
THERMAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Glass transition temperature		-60	°C	DIN EN ISO 11357
Melting temperature		169	°C	DIN EN ISO 11357
Service temperature	short term	140	°C	
Service temperature	long term	100	°C	



Certificate Number: 14352
ISO 9001



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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THERMAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Thermal expansion (CLTE)	23-60°C, long.	13	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2
Thermal expansion (CLTE)	23-100°C, long.	14	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2
Specific heat		1.3	J/(g*K)	ISO 22007-4:2008
Thermal conductivity		0.39	W/(K*m)	ISO 22007-4:2008
ELECTRICAL PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Specific surface resistance		> 10 ¹³	Ω	DIN IEC 60093
OTHER PROPERTIES	PARAMETER	VALUE	UNIT	NORM
Water absorption	24h / 96h (23°C)	0.05 / 0.1	%	DIN EN ISO 62
Resistance to hot water/ bases		(+)	-	-
Resistance to weathering		-	-	-
Flammability (UL94)	corresponding to	HB		DIN IEC 60695-11-10;

All The above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.



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