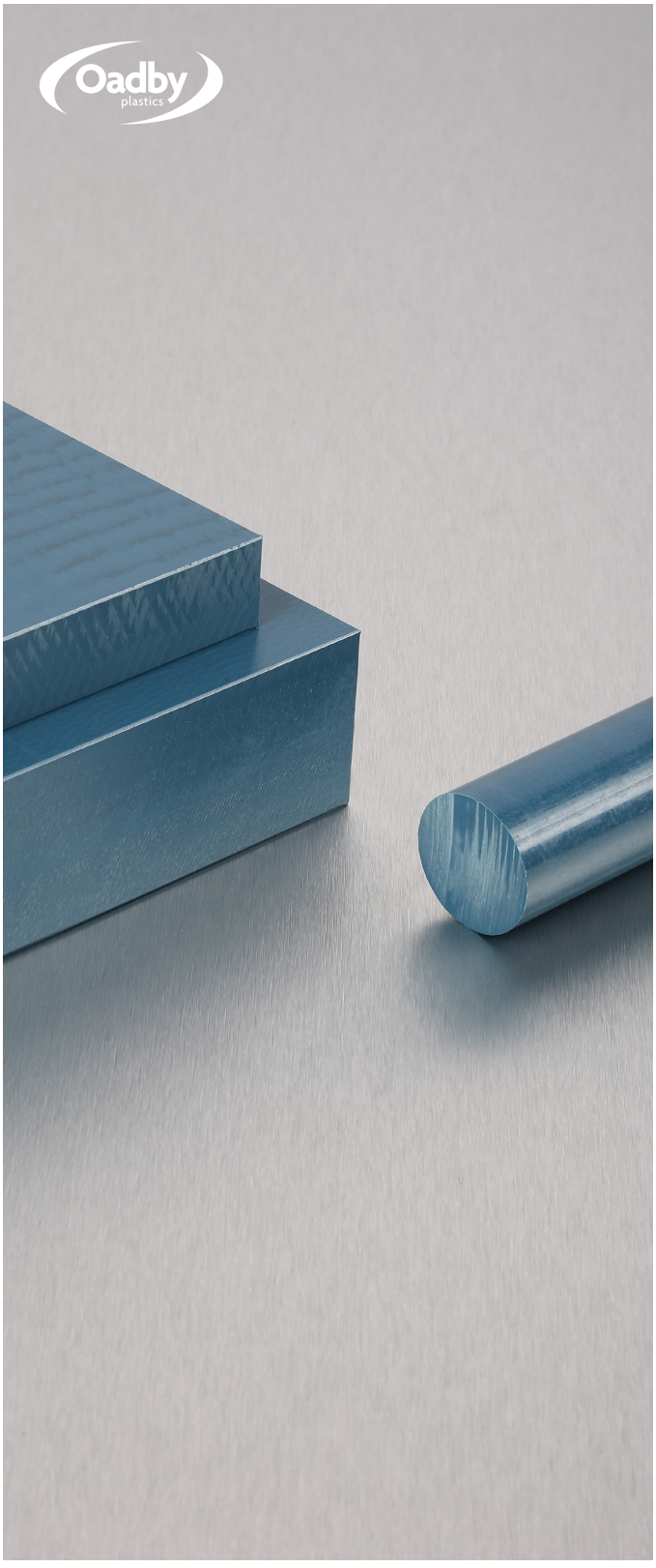
Acetal MD

Material Information



Acetal MD

Product full identity:
Polyoxymethylene Metal Detectable / POM MD

Acetal MD is tailored for the food processing and packaging industries, offering mechanical strength, stiffness, and impact resistance with full food compliance. Ideal for metal detection applications, it delivers reliable and durable performance in critical food handling systems.

Properties

- Metal detectable
- High dimensional stability
- Wide temperature range (+115 to -50°C)
- Low moisture absorption
- Good sliding properties
- Food contact approved

Applications

- Food processing
- Packaging

Forms

Solid Rod

Sheet

Acetal MD

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm³	ISO 1183-1	1.63
Water absorption until saturation at 23°C	%	-	-
Maximum service temp. Upper temp limit – short term	°C	-	-
Maximum service temp. Upper temp limit – long term	°C	-	90
Lower temp limit	°C	-	-20
Mechanical	**Unit**	**Test Method**	**Result**
Tensile strength	MPa	ISO 527-1/-2	55
Elongation at yield	%	ISO 527-1/-2	14
Tensile strength at break	MPa	ISO 527-1/-2	15
Unnotched impact strength	kJ/m²	ISO 179-1/1eU	60
Notch impact strength	kJ/m²	ISO 179-1/1eA	4
Ball indentation / Rockwell hardness	MPa	ISO 2039-2	79
Shore-D		-	-
Flexural modulus of elasticity	MPa	-	-
Tensile modulus of elasticity	MPa	ISO 527-1/-2	3200
Thermal	**Unit**	**Test Method**	**Result**
Vicat-softening point VST/B/50	°C	-	-
Heat deflection temperature HDT/B	°C	ISO 75-1/-2	120
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	-	160
Thermal conductivity at 23°C	W/mK	-	-
Electrical	**Unit**	**Test Method**	**Result**
Volume resistivity	Ω x m	IEC 62631-3-1	-
Surface resistivity	Ω	ANSI/ESD STM 11.11	10^{13}
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	-	-
Comparative tracking index (CTI)		-	-
Additional Data	**Unit**	**Test Method**	**Result**
Bondability		-	-
Food compliance – FDA		FDA	Yes
Food compliance – EU		EU 10/2011	Yes
Antistatic		-	-
Flammability	**Unit**	**Test Method**	**Result**
Fire performance		UL 94	HB
Optical	**Unit**	**Test Method**	**Result**
N/A	N/A	N/A	N/A

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