

Acetal

Acetal, commonly referred to as POM, and also known as **Delrin®**, **Celcon®**, polyacetal and polyformaldehyde, is a high-strength, impact-resistant thermoplastic that is easy to machine, wear-resistant, offers high heat resistance, and has excellent dimensional stability.

It also has low water absorption and is resistant to most forms of chemical exposure with the exception of chlorine and acid hydrolysis, making it suitable for many industrial and mechanical applications, from conveyor systems to automotive lock devices.

Although not as strong as nylon, Acetal is easier to machine and is sometimes preferred for this reason.

<i>Key Properties</i>		<i>Units</i>	<i>Test Method</i>
General			
Density Relative to Water (=1)	1.41	-	ISO 1183
Water Absorption (24 hrs)	0.24	%	ISO 62
Thermal			
Continuous Service Temperature	80 (176)	°C (°F)	-
Melting Point	165 (329)	°C (°F)	-
Mechanical			
Impact Strength, Notched Izod (23°C)	0.8 (1.5)	J/cm (ft-lbs/in)	-
Flexural Strength	79,300 (11,500)	kPa (psi)	ASTM D790
Tensile Strength	62,000 (9,000)	kPa (psi)	ASTM D638
Tensile Modulus	2,400 (350,000)	kPa (psi)	ASTM D638

Notes

Figures shown are for panel thickness 3mm

DISCLAIMER: *The purpose of this data sheet is to enable a consistent comparison with other products to help users to make an informed choice. The information provided in this product data sheet is for comparison and reference purposes only and is based on generic information gathered from a number of sources. In some cases the data provided is an average value only and represents our best attempt to describe the material's properties under typical factory conditions. We make no representations or warranties as to the completeness or accuracy of any of the data contained in this data sheet and users should use them as a general decision-making guide only. Branded data sheets are available on request. The information contained in this data sheet is subject to copyright. This data sheet cannot be reproduced for commercial purposes, apart from assisting users with making a purchasing decision, without the express permission of Plastic Wholesale.*

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