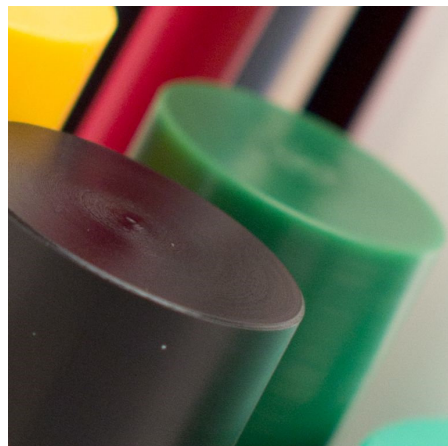


Technical Data Sheet

Acetal Co-Polymer/Homo-Polymer

Copolymer material with exceptional balance of mechanical strength and rigidity, good impact resistance and low moisture absorption, making this material an excellent all round thermoplastic. With its ease of machinability, acetal is an ideal choice for high precision parts, where dimensional stability is important. Capable of working up to 100 deg c, however its wear resistance is lower than nylon 6g.

Homopolymer material often referred to as delrin, has very similar properties to acetal c, but has increased mechanical strength, rigidity and creep resistance plus a lower thermal expansion rate and improved wear resistance. However, in continuous use, acetal c performs at 10 deg °c higher than Acetal H, and is more resistant to hot water and alkalis.



PLASTICS

Key Facts:

- High stability, rigidity & hardness
- Good impact resistance at low temperatures
- Low level moisture absorption
- Physiologically safe
- Excellent machinability
- Good creep resistance
- Not resistant to UV

Applications:

- Bearings
- Seals
- Scrapers
- Gears
- Rollers
- Precision Engineered Parts

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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Certificate Number: 14352
ISO 9001



Acetal Co-Polymer Sheet -Extruded

Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183	g/cm ³	1.41
2. Water absorption	ISO 62	%	0.25
3. Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	Short Term	°C	140
Lower temp limit	Long Term	°C	100
	-	°C	-40

Mechanical Properties	Test	Unit	Result
1. Tensile stress at break	ISO 527	Mpa	70
2. Modulus of elasticity	ISO 527	Mpa	3100
3. Impact strength	DIN 53453	kJ/m ²	NB
4. Notched impact strength	DIN 53453	kJ/m ²	>10
5. Ball indentation / Rockwell hardness	ISO 2039-1	N/mm ²	150
6. Rockwell hardness	ISO 2039-1	-	M85
7. Coefficient of friction (Dry Vs Steel)	-	0	0.25-0.45

Thermal Properties	Test Method	Unit	Result
1. Melting point	DIN 5376	°C	165
2. Coefficient of linear thermal expansion	ISO 11359	M/(M-K)	80x10 ⁻⁶
3. Flammability oxygen index	4589	%	15
4. Flammability	UL94	-	HB/HB

Electrical Properties	Test Method	Unit	Result
1. Volume resistivity	DIN 53482	Ω x cm	>10 ¹³
2. Dielectric constant (@ 50Hz Dry)	DIN 53482	-	3.8
3. Tracking resistance	DIN 53480	-	>600
4. Dielectric strength	DIN 53481	kV/mm	40

Additional Data	Test Method	Unit	Result
1. Food compliance	FDA/EC1935:2004-	-	+

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

Key		
Yes	Limited	No or no data
+	0	-



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