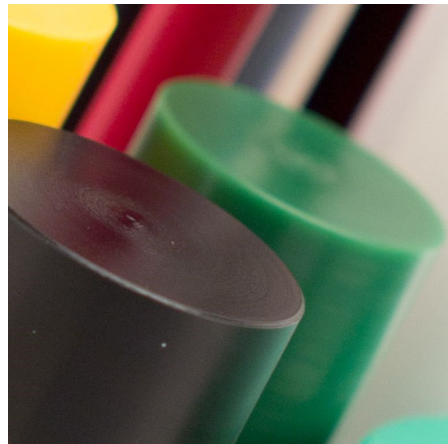


Technical Data Sheet

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.

www.epdm.co.uk

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Certificate Number: 14352
ISO 9001



Acetal Co-Polymer Sheet -Extruded

Physical Properties

1. Specific gravity
2. Water absorption
3. Maximum service temp. Upper temp limit (no stronger mechanical stress involved)
- Lower temp limit

Test	Unit	Result
ISO 1183	g/cm ³	1.41
ISO 62	%	0.25
Short Term	°C	140
Long Term	°C	100
-	°C	-40

Mechanical Properties

1. Tensile stress at break
2. Modulus of elasticity
3. Impact strength
4. Notched impact strength
5. Ball indentation / Rockwell hardness
6. Rockwell hardness
7. Coefficient of friction (Dry Vs Steel)

Test	Unit	Result
ISO 527	Mpa	70
ISO 527	Mpa	3100
DIN 53453	kJ/m ²	NB
DIN 53453	kJ/m ²	>10
ISO 2039-1	N/mm ²	150
ISO 2039-1	-	M85
-	0	0.25-0.45

Thermal Properties

1. Melting point
2. Coefficient of linear thermal expansion
3. Flammability oxygen index
4. Flammability

Test Method	Unit	Result
DIN 5376	°C	165
ISO 11359	M/(M-K)	80x10 ⁻⁶
4589	%	15
UL94	-	HB/HB

Electrical Properties

1. Volume resistivity
2. Dielectric constant (@ 50Hz Dry)
3. Tracking resistance
4. Dielectric strength

Test Method	Unit	Result
DIN 53482	Ω x cm	>10 ¹³
DIN 53482	-	3.8
DIN 53480	-	>600
DIN 53481	kV/mm	40

Additional Data

1. Food compliance

Test Method	Unit	Result
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

0

No or no data

-



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