Identification Designation

Polyoxymethylene, acetal (copolymer)

Shape factor Yield strength (elastic limit)

Elongation

Tensile strength

Compressive strength

Hardness - Vickers

Fracture touchness

Hardness - Rockwell M

Hardness - Rockwell R

Impact properties Impact strength, notched 23 °C

Thermal properties

Fatigue strength at 10*7 cycles

Impact strength, notched -30 °C

Impact strength, unnotched 23 °C

Impact strength, unnotched -30 °C

Heat deflection temperature 0.45MPa Heat deflection temperature 1.8MPa

Thermal expansion coefficient

Processing properties Linear mold shrinkage

Melt temperature

Optical properties

Absorption, permeability Water absorption @ 24 hrs

Flexural strength (modulus of rupture)

Mechanical loss coefficient (tan delta)

Acetron; Alcom; Amcel; Amilus; Anjaform; BeetleAcetal; Bergaform; Celcon; Compocet; Dafnelan; Delrin;

- 35.4 MD/N/kg

- 3.09 GPa

- 4.63 **GPa**

- 0.401

- 71.7 MPa

- 89.6 MPa

- 116 MPa - 94.1

- 26 MPa

* 0.0125 - 0.0154

* 105

85.4

15

* 17.2 - 21.5 HV

75 - 90

3.8 - 42

4.14 - 7.51 kJ/m*2

4.09 - 6.56 - 200

99.9

75.2 - 200 kJ/m*2

160 -60

-50 40 0.239 1.28e3

1.82 22

3.3e20 3.6 3e21 3.8 µohm.cm

Opaque

300

* 111 - 122 GPa GPa

GPa

MPa - 75

% strain

MPa m^{40,5}

kJ/m*2

J/kg.*C

cm⁴.mm/m².day.atm

198 ustrain/°C

232 MPa

0.00105

Deniform: Duracon: Durmax: Ecoform: Encore: Ensital: Ertacetal: Formax: Formosacan: Hostaform: Isotal: lupital; Kematal; Kepital; Kocetal; Kopla; Latan; Lucel; Lucet; Lunex-T; Luvocom; Murytal; Nevipom; Niform; Nylov: Palform: Pomalux: Pertal: Poliform: POLYform: Pomfor: Seratal: Sniatal: Talnex: Tarnoform: Taroform: Tecaform; Tekuform; Tenac; Tepcon; Terez; TismoPoticon; Ultraform; Whistatt

General Properties 1.39e3 - 1.41e3 kg/m⁴3

Composition overview Composition (summary)

Copolymer of (CH2-O)n (from formaldehyde or tricxcane) with small amounts (<5%) of a

compnomer such as -(CH2-CH2-O)- (from ethylene oxide or dioxolane) Polymer

Polymer class Thermoplastic : semi-crystalline

POM (copolymer)

Polymer type full name Polyoxymethylene (acetal), copolymer

Filler type

Composition detail (polymers and natural materials)

Mechanical properties

Young's modulus - 32

2.54

Flexural modulus

* 0.933 - 1.15

Shear modulus 4.41 Bulk modulus

* 0.386 Poisson's ratio

Molding pressure range	
Electrical properties	
Electrical resistivity	
Dielectric constant (relative permittivity)	
Dissipation factor (dielectric loss tangent)	