

CS Hyde Company

1351 N. Milwaukee Ave.,
Lake Villa, IL 60046
Ph. 847-395-0325 Fax 847-395-0334
sales@cshyde.com / www.cshyde.com

PRODUCT INFORMATION

45-__F (Celcon M25) Acetal Copolymer

Description: High molecular weight, higher toughness and impact resistance grade primarily used for extrusion and injection molding applications.

Data provided by Ticona.

Physical Properties

	Metric	English
Density	1.4 g/cc	0.0506 lb/in ³

Mechanical Properties

Tensile Strength, Yield	64 MPa	6280 psi	50mm/min
Tensile Modulus	2,445 GPa	355 ksi	1 mm/min
Flexural Modulus	2,402 GPa	348 ksi	
Izod Impact, Notched (ISO)	7.7 Kj/m ²	3.66 ft-lb/in ²	
Charpy Impact, Notched	0.93 J/cm ²	4.43 ft-lb/in ²	

Thermal Properties

Deflection Temperature at 1.8 MPa (264 psi)	95 °C	203 °F
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Processing Properties

Melt Temperature	182-199 °C	360-390 °C
Mold Temperature	77-93 °C	171-199°F
Drying Temperature	82.2 °C	180 °F
Dry Time	3 hour	3 hour
Injection Pressure	75.8-110 MPa	11000-16000 psi

*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.