CELCON® ST-50 (FU2050)

CELCON®

CELCON® ST-50 is a super-toughened impact-resistance grade with high content of impact modifier for general injection molding. Improved impact-resistance and flexibility

Product information

Resin Identification	POM-I	ISO 1043
Part Marking Code	>POM-I<	ISO 11469

Rheological properties

Melt mass-flow rate	4	g/10min	ISO 1133
Melt mass-flow rate, Temperature	374	°F	
Melt mass-flow rate, Load	4.76	lb	

Typical mechanical properties

Tensile modulus	116000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	3600	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	22	%	ISO 527-1/-2
Flexural modulus	116000	psi	ISO 178
Flexural strength	3770	psi	ISO 178
Charpy notched impact strength, 23°C	N	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.33	ftlb/in²	ISO 179/1eA
Poisson's ratio	0.345		

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	136	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.67	E-4/°F	ISO 11359-1/-2

Physical/Other properties

Density	0.0462	lb/in³	ISO 1183

Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified

Revised: 2026-04-22 Source: Celanese Materials Database

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