CELCON® TE-24 (FU2020)

CELCON®

CELCON® TE-24 is a toughened, medium-high viscosity grade for general injection molding. Suitable for applications requiring higher impact resistance and toughness

Product information

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

Rheological properties

Melt mass-flow rate	6	g/10min	ISO 1133
Melt mass-flow rate, Temperature	374	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	1.7	%	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at yield, 50mm/min	5900	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	13	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Flexural modulus	210000	psi	ISO 178
Flexural strength	7690	psi	ISO 178
Charpy notched impact strength, 23°C	8.56	ftlb/in²	ISO 179/1eA
Poisson's ratio	0.437		

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	160	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.72	E-4/°F	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10

Electrical properties

Volume resistivity	1E12	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2
Electric strength	533	kV/in	IEC 60243-1

Physical/Other properties

Humidity absorption, 2mm	0.24	%	Sim. to ISO 62
Density	0.0487	lb/in³	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	383	°F
Min. melt temperature	356	°F

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Max. melt temperature	410	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	140	°F
Max. mold temperature	176	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3	s

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Hyundai	MS237-09 Type D-1	Pyeongtaek,Korea
Hyundai	MS237-14 Type A	Pyeongtaek,Korea

Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified

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