



Zenite® ZE16401

Celanese Corporation - Liquid Crystal Polymer

Sunday, November 3, 2019

General Information

Product Description

Zenite® ZE16401 is a 30% mineral reinforced and Teflon® PTFE powder filled liquid crystal polymer for injection molding. and It is well suited for low wear / low friction applications.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Filler / Reinforcement	• Mineral, 30% Filler by Weight
Additive	• PTFE Lubricant
Features	• Low Friction • Lubricated • Wear Resistant
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.23E+6	psi	ISO 527-2/1A/1
Tensile Stress (Break)	17400	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.8	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	957000	psi	ISO 178
Flexural Stress (73°F)	19600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	464	°F	ISO 75-2/A
Melting Temperature ²	635	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	284 to 320	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.010	%
Hopper Temperature	68 to 86	°F
Rear Temperature	635 to 653	°F
Middle Temperature	662 to 680	°F
Front Temperature	662 to 680	°F
Processing (Melt) Temp	662 to 680	°F
Mold Temperature	176 to 248	°F
Back Pressure	< 435	psi

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Injection Notes

Feeding zone temperature: 40 to 60°C

Zone 4 temperature: 350 to 360°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min