

Zenite® 16301

Celanese Corporation - Liquid Crystal Polymer

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General Information

Product Description

Zenite® 16301 is a 30% mineral reinforced liquid crystal polymer for injection molding. It has excellent impact resistance, excellent heat deflection temperature and and is well suited for all kinds of demanding applications.

General

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Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Filler / Reinforcement	Mineral, 30% Filler by Weight		
Features	Good Impact Resistance		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.62	g/cm³	ISO 1183	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	1.72E+6	psi	ISO 527-2/1A	
Tensile Stress (Break)	18900	psi	ISO 527-2/1A/50	
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/50	
Flexural Modulus (73°F)	1.52E+6	psi	ISO 178	
Flexural Stress (73°F)	19700	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength (73°F)	8.9	ft·lb/in²	ISO 179/1eA	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	457	°F	ISO 75-2/A	
Melting Temperature ²	626	°F	ISO 11357-3	

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	284 to 338	°F	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.010	%	
Hopper Temperature	68 to 86	°F	
Rear Temperature	599 to 617	°F	
Middle Temperature	608 to 626	°F	
Front Temperature	617 to 635	°F	
Processing (Melt) Temp	563 to 590	°F	
Mold Temperature	176 to 248	°F	
Back Pressure	< 435	psi	
njection Notes			

Feeding Zone Temperature: 60 to 80°C Zone 4 Temperature: 330 to 340°C

Notes

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

² 10°C/min

