



Fortron® ICE 716L

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

FORTRON ICE 716L is a 65% glass/mineral filled material that belongs to our new generation of PPS. This new technology allows you to optimize your molding conditions with faster cycle times for complex shapes or process with low mold temperatures.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass\Mineral, 65% Filler by Weight		
Features	• Fast Molding Cycle		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.95	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.30 to 0.60	%	
Flow	0.20 to 0.50	%	
Water Absorption (Saturation, 73°F)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3.12E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	23200	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.2	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	3.05E+6	psi	ISO 178
Flexural Stress (73°F)	37700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	14	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	518	°F	ISO 75-2/A
Heat Deflection Temperature (1160 psi, Unannealed)	428	°F	ISO 75-2/C
CLTE - Flow	7.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse	1.7E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Mold Temperature	284 to 320	°F

Notes

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