



Fortron® CES51

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

Fortron CES51 is a 20% glass reinforced PPS resin with low chlorine content. It offers excellent physical properties and good adhesion to metal with nano molding technology treatment.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
Filler / Reinforcement	• Asia Pacific • Latin America		
Features	• Glass Fiber, 20% Filler by Weight • Good Adhesion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40	%	
Flow	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.04E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	16000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.02E+6	psi	ISO 178
Flexural Stress (73°F)	25400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	8.1	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	24	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	464	°F	ISO 75-2/A

Notes

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