Celstran® PP-GF30-03-AD3002

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

30% long glass fiber reinforced, chemically coupled, heat stabilized, Polypropylene BLACK

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Long Glass Fiber, 30% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Chemically Coupled	• Heat Stabilized
Appearance	• Black	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.02E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	16000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.2	%	ISO 527-2/1A/5
Flexural Modulus			ISO 178
73°F	1.02E+6	psi	
176°F	943000	psi	
Flexural Stress			ISO 178
73°F	25400	psi	
176°F	14500	psi	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	10	ft·lb/in²	
73°F	11	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	23	ft·lb/in²	
73°F	26	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	316	°F	ISO 75-2/A
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.04 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	194 to 212	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	392 to 446	°F
Middle Temperature	428 to 464	°F
Front Temperature	464 to 482	°F

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Injection	Nominal Value	Unit
Nozzle Temperature	446 to 482	°F
Processing (Melt) Temp	446 to 518	°F
Mold Temperature	86 to 158	°F
Injection Rate	Slow	
Back Pressure	< 435	psi

Injection Notes

Feeding zone temperature: 20 to 50°C
Zone4 temperature: 250 to 260°C
Hot runner temperature: 230 to 270°C

Notes

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