Celstran® PP-GF30-03-Black

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
RoHS Compliance	• Contact Manufacturer	
Automotive Specifications	• CHRYSLER MS-DB-21 CPN3778 Color: Black	• CHRYSLER MS-DB-558 CPN4139 Color: Black
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			
--	870000	psi	ISO 527-2/1A/1
176°F	624000	psi	ISO 527-2/1A
Tensile Stress (Break)	13100	psi	ISO 527-2/1A/5
Tensile Stress (176°F)	7980	psi	ISO 527-2/1A
Tensile Strain			
Break	2.2	%	ISO 527-2/1A/5
Break, 176°F	2.3	%	ISO 527-2/1A
Flexural Modulus			ISO 178
73°F	914000	psi	
176°F	841000	psi	
Flexural Stress			ISO 178
73°F	21800	psi	
176°F	13100	psi	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	7.1	ft·lb/in²	
73°F	8.1	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	17	ft·lb/in²	
73°F	20	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	316	°F	ISO 75-2/A

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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 410	°F
Middle Temperature	410 to 428	°F
Front Temperature	428 to 446	°F
Nozzle Temperature	446 to 464	°F
Processing (Melt) Temp	446 to 464	°F
Mold Temperature	104 to 158	°F

Injection Notes

Zone 4 Temperature: 230 to 240°C
Feed Temperature: 20 to 50°C

Notes

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