Celstran® PP-GF40-20 AD 3004 Black

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

40% long strand glass fiber reinforced polypropylene, higher tensile and impact strength

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Long Glass Fiber, 40% Filler by Weight		
Features	• High Impact Resistance	• High Tensile Strength	
Appearance	• Black		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.45E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	21800	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.26E+6	psi	ISO 178
Flexural Stress (73°F)	29000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	17	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	322	°F	ISO 75-2/A
Heat Deflection Temperature (1160 psi, Unannealed)	300	°F	ISO 75-2/C

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	194 to 212	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	410 to 428	°F
Middle Temperature	428 to 446	°F
Front Temperature	446 to 464	°F
Nozzle Temperature	446 to 482	°F
Processing (Melt) Temp	446 to 482	°F
Mold Temperature	104 to 158	°F

Injection Notes

Feeding zone temperature: 20 to 50°C

Zone4 temperature: 230 to 250°C

Notes

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