Celstran® PP-GF40-03-Black

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

40% long glass fiber reinforced, chemically coupled, heat stabilized, Polypropylene BLACK

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Long Glass Fiber, 40% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Chemically Coupled	• Heat Stabilized
RoHS Compliance	• Contact Manufacturer	
Automotive Specifications	• GM GMP.PP.112 Color: Black	
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	1.21E+6	psi	ISO 527-2/1A/1
Tensile Stress (Break)	16500	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	1.20E+6	psi	ISO 178
Flexural Stress (73°F)	27600	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	14	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	316	°F	ISO 75-2/A

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

Zone 4 Temperature: 230 to 250°C
Feed Temperature: 20 to 50°C

Notes

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