Celstran® PEHD-GF60-01

High Density Polyethylene

Celanese Corporation

Message:

58% long strand glass fiber reinforced high density polyethylene

General Information			
Filler / Reinforcement	Long glass fiber, 58% filler by weight		
RoHS Compliance	Contact manufacturer		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.51	g/cm³	ASTM D792
--	1.50	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-40°C	15200	MPa	ASTM D638
23°C	13600	MPa	ASTM D638
93°C	7170	MPa	ASTM D638
--	10500	MPa	ISO 527-2/1A/1
Tensile Strength			
Fracture, -40°C	161	MPa	ASTM D638
Fracture, 23°C	113	MPa	ASTM D638
Fracture, 93°C	49.0	MPa	ASTM D638
Fracture	91.0	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, 23°C	1.5	%	ASTM D638
Fracture	1.4	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	11700	MPa	ISO 178
Flexural Stress (23°C)	160	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	30	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	121	°C	ASTM D648
Injection	**Nominal Value**	**Unit**	
Drying Temperature	90.0 - 100	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	200 - 210	°C	
Middle Temperature	210 - 220	°C	

Front Temperature	220 - 230	°C
Nozzle Temperature	230 - 240	°C
Processing (Melt) Temp	230 - 240	°C
Mold Temperature	40.0 - 70.0	°C

Injection instructions
Zone 4 Temperature: 230 to 240°CFeed Temperature: 20 to 50°C

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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