

GLS Nylon 6 PG39

Polyamide 6
GLS Polymers Pvt. Ltd.

Message:
Nylon6 15 GF Precolor

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Appearance	Colors Available		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20 to 1.24	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	> 100	MPa	ASTM D638
Tensile Elongation ² (Break)	2.0 to 6.0	%	ASTM D638
Flexural Modulus ³	> 4000	MPa	ASTM D790
Flexural Strength ⁴	> 130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	> 40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	> 150	°C	
1.8 MPa, Unannealed	> 58.0	°C	
Vicat Softening Temperature	> 210	°C	ASTM D1525 ⁵
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	245 to 280	°C	
Mold Temperature	55.0 to 95.0	°C	
Injection Pressure	68.0 to 105	MPa	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		
5.	Rate B (120°C/h)		

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