

Polygrade® PET B3 G30 NTLA010 PG303

Polyethylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

Polygrade® PET B3 G30 NTLA010 PG303 is a Polyethylene Terephthalate (PET) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Polygrade® PET B3 G30 NTLA010 PG303: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55 to 1.57	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.25	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	157	MPa	ASTM D638
Tensile Elongation (Break)	2.6	%	ASTM D638
Flexural Modulus	8950	MPa	ASTM D790
Flexural Strength	233	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	223	°C	ASTM D696
Melting Temperature	253	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	< 0.020	%	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	> 95.0	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

