

Polygrade® PET B3 G45 PRTA011 PG302

Polyethylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

Polygrade® PET B3 G45 PRTA011 PG302 is a polyethylene terephthalate (PET) material, which contains a 45% glass fiber reinforced material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding. Polygrade® The main characteristics of PET B3 G45 PRTA011 PG302 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68 - 1.71	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	185	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	15100	MPa	ASTM D790
Flexural Strength	280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	225	°C	ASTM D696
Melting Temperature	255	°C	ASTM D2117
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 - 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



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