TARONYL G4

Polyphenylene Ether + PS

Taro Plast S.p.A.

Message:

PPO 20% glass fibres reinforced, low shrinkage, very high thermal and electrical resistance, very good water resistance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Heat resistance, high Low shrinkage Low or no water absorption		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20 - 1.22	g/cm³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.50 - 0.70	%	Internal method
Flow direction	0.30 - 0.50	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	0.060	%	ISO 62
Saturated, 23°C	0.14	%	ISO 62
Water absorption rate-Saturation (100°C)	0.32	%	ISO 62
Reinforcement Content [1] (750°C)	20	%	ISO 3451
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6400	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus [2]			ISO 178
23°C	6000	MPa	ISO 178
60°C	5200	MPa	ISO 178
90°C	5000	MPa	ISO 178
Flexural Stress [3]	140	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179/1eA
Notched Izod Impact			ASTM D256
-25°C	78	J/m	ASTM D256
23°C	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [4] (1.8 MPa, Unannealed)	130	°C	ISO 75-2/A

Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	138	°C	ISO 306/B50
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength			IEC 60243-1
2.00 mm	23	kV/mm	IEC 60243-1
3.00 mm	17	kV/mm	IEC 60243-1
Dielectric Constant	2.90		IEC 60250
Comparative Tracking Index (Solution A)	225	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.970 mm	HB		UL 94
1.60 mm	HB		UL 94
3.20 mm	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Oxygen Index	26	%	ASTM D2863
Injection	**Nominal Value**	**Unit**	
Drying Temperature	100 - 110	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	260 - 280	°C	
Mold Temperature	100 - 120	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Pre-heat Temperature: 100 to 110°CPre-heat Time: 3 hrs			
NOTE			
1.	1 hr		
2.	1.0 mm/min		
3.	1.0 mm/min		
4.	120°C/hr		

Recommended distributors for this material

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WECHAT