

INFINO GP-5400G

PBT-GF40

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	10	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.0044	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.00595	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9000	MPa	ISO 527
Yield stress	160	MPa	ISO 527
Stress at break	160	MPa	ISO 527
Strain at break	3.9	%	ISO 527
Flexural modulus, 23°C	10000	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
Rockwell hardness	R 115	-	ISO 2039-2
ASTM Data			
Tensile Modulus	8800	MPa	ASTM D 638
Tensile Strength at Yield	140	MPa	ASTM D 638
Tensile Strength at Break	140	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	11000	MPa	ASTM D 790
Flexural Strength	210	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
Izod Impact notched, 1/4 in	88	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	207	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	222	°C	ISO 75-1/-2
Vicat softening temperature, B	211	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.75	mm	-
DTUL @ 66 psi	224	°C	ASTM D 648
DTUL @ 264 psi	210	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1610	kg/m ³	ISO 1183
Density	1610	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	250	°C	-
Mold temperature	60 - 120	°C	-

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Zone 1	210 - 220	°C	-
Zone 2	225 - 230	°C	-
Zone 3	240 - 250	°C	-
Nozzle temperature	250	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	49 - 250	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets, Natural Color