

INFINO GC-1017

(PC+ABS)

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	46	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
ASTM Data			
Melt Flow Index, MFI	46	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0025	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.003	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Stress at break	46	MPa	ISO 527
Strain at break	8	%	ISO 527
Flexural modulus, 23°C	2700	MPa	ISO 178
Flexural strength	86	MPa	ISO 178
Charpy notched impact strength, +23°C	15	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	17	kJ/m ²	ISO 180/1A
Rockwell hardness	R 115	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2400	MPa	ASTM D 638
Tensile Strength at Yield	57	MPa	ASTM D 638
Tensile Strength at Break	43	MPa	ASTM D 638
Elongation at Break	23	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Flexural Strength	87	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
Izod Impact notched, 1/8 in	440	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	77	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	86	°C	ISO 75-1/-2
Vicat softening temperature, B	93	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.0	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	2	mm	-
DTUL @ 66 psi	91	°C	ASTM D 648
DTUL @ 264 psi	83	°C	ASTM D 648
Vicat Temperature	93	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1170	kg/m ³	ISO 1183
Density	1170	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	250	°C	-

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Mold temperature	50 - 80	°C	-
Zone 1	230	°C	-
Zone 2	240 - 250	°C	-
Zone 3	250 - 260	°C	-
Nozzle temperature	260	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	93	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets, Natural Color