

INFINO WP-1041G

(PC+ABS)

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	3	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	31	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0055	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	1900	MPa	ISO 527
Yield stress	47	MPa	ISO 527
Stress at break	41	MPa	ISO 527
Strain at break	73	%	ISO 527
Flexural modulus, 23°C	2000	MPa	ISO 178
Flexural strength	70	MPa	ISO 178
Charpy notched impact strength, +23°C	47	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	45	kJ/m ²	ISO 180/1A
Izod notched impact strength	35	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Rockwell hardness	R 107	-	ISO 2039-2
ASTM Data			
Tensile Modulus	1900	MPa	ASTM D 638
Tensile Strength at Yield	49	MPa	ASTM D 638
Tensile Strength at Break	39	MPa	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	1900	MPa	ASTM D 790
Flexural Strength	66	MPa	ASTM D 790
Rockwell Hardness	R 105	-	ASTM D 785
Izod Impact notched, 1/8 in	540	J/m	ASTM D 256
Izod Impact notched, 1/4 in	410	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	390	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	101^[ann.]	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	116^[ann.]	°C	ISO 75-1/-2
Vicat softening temperature, B	113	°C	ISO 306
Coeff. of linear therm. expansion, parallel	85	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	85	E-6/K	ASTM D 696
DTUL @ 66 psi	120	°C	ASTM D 648
DTUL @ 264 psi	100	°C	ASTM D 648
ann.: annealed			
Other properties			
Value			
Density	1090	kg/m ³	ISO 1183
Density	1090	kg/m ³	ASTM D 792

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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	240 - 270	°C	-
Mold temperature	60 - 90	°C	-
Zone 1	210 - 230	°C	-
Zone 2	230 - 240	°C	-
Zone 3	240 - 265	°C	-
Nozzle temperature	240 - 270	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	78	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific