

INFINO TP-1020

PC

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	28	g/10min	ISO 1133
Temperature	250	°C	-
Load	10	kg	-
ASTM Data			
Melt Flow Index, MFI	30	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	10	kg	-
Mechanical properties			
Value	Unit	Test Standard	
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Stress at break	67	MPa	ISO 527
Strain at break	111	%	ISO 527
Flexural modulus, 23°C	2000	MPa	ISO 178
Flexural strength	84	MPa	ISO 178
Charpy notched impact strength, +23°C	16	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
Rockwell hardness	R 121	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	59	MPa	ASTM D 638
Tensile Strength at Break	69	MPa	ASTM D 638
Elongation at Break	112	%	ASTM D 638
Flexural Modulus	1900	MPa	ASTM D 790
Flexural Strength	85	MPa	ASTM D 790
Rockwell Hardness	R 122	-	ASTM D 785
Izod Impact notched, 1/8 in	640	J/m	ASTM D 256
Izod Impact notched, 1/4 in	98	J/m	ASTM D 256
Thermal properties			
Value	Unit	Test Standard	
ISO Data			
Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Vicat softening temperature, B	146	°C	ISO 306
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.8	mm	-
DTUL @ 66 psi	143	°C	ASTM D 648
DTUL @ 264 psi	129	°C	ASTM D 648
Other properties			
Value	Unit	Test Standard	
Density	1190	kg/m ³	ISO 1183
Density	1220	kg/m ³	ASTM D 792
Processing Recommendation Extrusion			
Value	Unit	Test Standard	
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	280	°C	-
Mold temperature	50 - 60	°C	-
Zone 1	240 - 250	°C	-
Zone 2	260 - 270	°C	-
Zone 3	280 - 285	°C	-

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Nozzle temperature

290

°C

-

Characteristics**Processing**

Other Extrusion

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets, Natural Color