

INFINO HC-8040

(PPE+PA*)

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	22	g/10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
Molding shrinkage, parallel	1.1	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	22	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0105	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.01	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	27	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	94	MPa	ISO 178
Charpy notched impact strength, +23°C	20	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	20	kJ/m ²	ISO 180/1A
Rockwell hardness	R 114	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2200	MPa	ASTM D 790
Flexural Strength	84	MPa	ASTM D 790
Rockwell Hardness	R 114	-	ASTM D 785
Izod Impact notched, 1/8 in	200	J/m	ASTM D 256
Izod Impact notched, 1/4 in	180	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	85	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	105	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	90	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	105	E-6/K	ASTM D 696
DTUL @ 264 psi	108	°C	ASTM D 648
Other properties			
Density	1100	kg/m ³	ISO 1183
Density	1100	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	295 - 305	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-

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Zone 3	280 - 300	°C	-
Nozzle temperature	270 - 290	°C	-
Screw speed	40 - 70	rpm	-
Injection pressure	98 - 200	MPa	-
Back pressure	4.9 - 9.8	MPa	-

Characteristics**Processing**

Injection Molding

Applications

Automotive

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific