

INFINO AR-5300H

(PBT+ASA)-GF

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	30	g/10min	ISO 1133
Temperature	250	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	30	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0035	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	7000	MPa	ISO 527
Yield stress	110	MPa	ISO 527
Stress at break	105	MPa	ISO 527
Strain at break	5	%	ISO 527
Flexural modulus, 23°C	7800	MPa	ISO 178
Flexural strength	170	MPa	ISO 178
Charpy notched impact strength, +23°C	8	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	8	kJ/m ²	ISO 180/1A
Rockwell hardness	R 117	-	ISO 2039-2
ASTM Data			
Tensile Modulus	8300	MPa	ASTM D 638
Tensile Strength at Yield	130	MPa	ASTM D 638
Tensile Strength at Break	130	MPa	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	8800	MPa	ASTM D 790
Flexural Strength	190	MPa	ASTM D 790
Rockwell Hardness	R 117	-	ASTM D 785
Izod Impact notched, 1/8 in	79	J/m	ASTM D 256
Izod Impact notched, 1/4 in	88	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	180	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	195	°C	ISO 75-1/-2
Vicat softening temperature, B	205	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
ASTM Data			
DTUL @ 66 psi	205	°C	ASTM D 648
DTUL @ 264 psi	193	°C	ASTM D 648
Other properties			
Density	1450	kg/m ³	ISO 1183
Density	1450	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-

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Processing humidity	≤0.04	%	-
Melt temperature	250 - 260	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	230 - 240	°C	-
Zone 2	240 - 250	°C	-
Zone 3	250 - 260	°C	-
Nozzle temperature	270	°C	-
Screw speed	5 - 25	rpm	-
Injection pressure	98	MPa	-
Back pressure	2.9 - 7.8	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Special Characteristics

Flame retardant

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific