SABIC Innovative Plastics™

LNP* Thermocomp* Compound HF00ASU

Europe-Africa-Middle East: COMMERCIAL

LNP* THERMOCOMP* HF00ASU is a compound based on PA11 resin containing Glass Fiber. Added features include; Heat Stabilized, UV-Stabilized.

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield, 5 mm/min	158	MPa	ISO 527
Tensile Strain, break, 5 mm/min	5.6	%	ISO 527
Tensile Modulus, 1 mm/min	9800	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	223	MPa	ISO 178
Flexural Modulus, 2 mm/min	10300	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched 80*10*4 +23°C	87	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	27	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
CTE, 23°C to 60°C, flow	1.6E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.14E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	179	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Mold Shrinkage, flow	0.2	%	SABIC Method
Mold Shrinkage, flow, 24 hrs	0.4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.2	%	ISO 294
Density	1.48	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.14	%	ISO 62-1

Source GMD, last updated:12/11/2008

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	225 - 260	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	230 - 245	°C
Rear - Zone 1 Temperature	200 - 210	°C
Mold Temperature	45 - 55	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:12/11/2008

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.