

Sunday, November 19, 2006

UBE Nylon 1013B (Dry)
 UBE Engineering Plastics, S.A. - *Polyamide 6*

Unit System: English

Actions **Legend (Open)**



General Information

General	
Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Test Standards Available	<ul style="list-style-type: none"> ASTM
Features	<ul style="list-style-type: none"> Abrasion Resistance, Good Chemical Resistance, Good Heat Resistance, High Impact Resistance, Good Lubricating, Self Mold Release, Good Oil Resistant Rigidity, High Solvent Resistant Sound Damping Vibration Damping
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density -Specific Gravity	1.14	sp gr 23/23 ° C	ASTM D792
Mold Shrink, Linear-Flow	0.014 to 0.015	in/in	ASTM D955
Water Absorption @ 24 hrs	1.8	%	ASTM D570
Water Absorption @ Sat.	11	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength @ Yield	10700	psi	ASTM D638
Tensile Strength @ Break	9240	psi	ASTM D638
Tensile Elongation @ Yld	8.0	%	ASTM D638
Tensile Elongation @ Brk	170	%	ASTM D638
Flexural Modulus	369000	psi	ASTM D790
Flexural Strength @ Yield	15600	psi	ASTM D790
Compressive Strength	2840	psi	ASTM D695
Shear Strength	9240	psi	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
(-22 ° F)	0.730	ft-lb/in	
(73 ° F)	1.10	ft-lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
(M-Scale)	85		
(R-Scale)	120		
Thermal	Nominal Value	Unit	Test Method
DTUL @66psi - Unannealed	347	° F	ASTM D648
DTUL @264psi - Unannealed	167	° F	ASTM D648
Melting Point	419 to 437	° F	
CLTE, Flow	0.000044	in/in/° F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohm-cm	ASTM D257
Dielectric Strength	508	V/mil	ASTM D149
Dielectric Constant			ASTM D150
(60 Hz)	3.900		
(1E+6 Hz)	3.500		
Dissipation Factor			ASTM D150
(60 Hz)	0.0100		
(1E+6 Hz)	0.020		
Arc Resistance (0.0313 in)	119	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (0.0313 in)	V-2		UL 94
UL 746	Nominal Value	Unit	Test Method

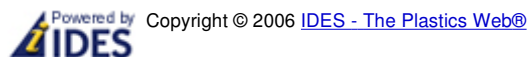
RTI Str (0.0313 in)	149 ° F	UL 746
RTI Imp (0.0313 in)	149 ° F	UL 746
RTI Elec (0.0313 in)	149 ° F	UL 746

Processing Information

Injection	Nominal Value	Unit
Suggested Max Moisture	0.10	%
Rear Temperature	428	° F
Middle Temperature	446	° F
Front Temperature	473	° F
Nozzle Temperature	473	° F
Processing (Melt) Temp	482	° F
Mold Temperature	158 to 176	° F
Injection Pressure	9240	psi
Back Pressure	1420	psi
Screw Speed	100 to 150	rpm

Notes

1 Typical properties: these are not to be construed as specifications.



The information presented on this data sheet was acquired by IDES from various sources, including the producer of the material and recognized testing agencies. In some cases, material updates have been integrated directly into the IDES Plastics Database by the material producer utilizing the Data Maintenance Tool. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and urges that upon final material selection, data points are validated with the manufacturer.

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