

UBE Nylon 1013B

Polyamide 6

UBE Engineering Plastics, S.A.

Message:

UBE Nylon 1013B is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Good Mold Release
- Heat Resistant
- Impact Resistant

General Information				
UL YellowCard		E173981-100115866	E48133-240238	
Features		Good Abrasion Resistance		
		Good Chemical Resistance		
		Good Impact Resistance		
		Good Mold Release		
		High Heat Resistance		
		High Rigidity		
		Oil Resistant		
		Self Lubricating		
		Solvent Resistant		
		Sound Damping		
		Vibration Damping		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	--	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.4 to 1.5	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	1.8	--	%	
Saturation	11	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	85	55		
R-Scale	120	85		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield	73.5	39.2	MPa	
Break	63.7	--	MPa	

Tensile Elongation				ASTM D638
Yield	8.0	--	%	
Break	170	200	%	
Flexural Modulus	2550	735	MPa	ASTM D790
Flexural Strength (Yield)	108	39.2	MPa	ASTM D790
Compressive Strength	19.6	9.80	MPa	ASTM D695
Shear Strength	63.7	58.8	MPa	ASTM D732
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-30°C	39	--	J/m	
23°C	59	490	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	175	--	°C	
1.8 MPa, Unannealed	75.0	--	°C	
Melting Temperature	215 to 225	--	°C	
CLTE - Flow	8.0E-5	--	cm/cm/°C	ASTM D696
RTI Elec (0.794 mm)	65.0	--	°C	UL 746
RTI Imp (0.794 mm)	65.0	--	°C	UL 746
RTI Str (0.794 mm)	65.0	--	°C	UL 746
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms · cm	ASTM D257
Dielectric Strength	20	--	kV/mm	ASTM D149
Dielectric Constant				ASTM D150
60 Hz	3.90	9.00		
1 MHz	3.50	4.50		
Dissipation Factor				ASTM D150
60 Hz	0.010	0.10		
1 MHz	0.020	0.12		
Arc Resistance (0.794 mm)	119	--	sec	ASTM D495
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.794 mm)	V-2	--		UL 94
Injection	Dry	Unit		
Suggested Max Moisture	0.10		%	
Rear Temperature	220		°C	
Middle Temperature	230		°C	
Front Temperature	245		°C	
Nozzle Temperature	245		°C	
Processing (Melt) Temp	250		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Pressure	63.7		MPa	

Back Pressure	9.80	MPa
Screw Speed	100 to 150	rpm

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