

1013B	ASTM basis						
	Method	CGS-Unit	Dry as Mold	Moist 3.5%	SI Unit	Dry as Mold	Moist 3.5%

Mechanical Properties								
Tensile Strength at Yield	- 30 °C	D-638	kgf/cm ²	1,100	870	MPa	108	85
	23 °C			750	400		74	39
	80 °C			320	180		31	18
Tensile Strength at Break	23 °C	D-638	kgf/cm ²	650	-	MPa	64	-
Tensile Elongation at Yield	23 °C	D-638	%	8	-	%	8	-
Tensile Elongation at Break	23 °C	D-638	%	170	>200	%	170	>200
Flexural Strength	- 30 °C	D-790	kgf/cm ²	1,400	1,300	MPa	137	128
	23 °C			1,100	400		108	39
	80 °C			400	250		39	25
Flexural Modulus	- 30 °C	D-790	kgf/cm ²	36,000	34,000	GPa	3.5	3.3
	23 °C			26,000	7,500		2.6	0.7
	80 °C			7,000	4,000		0.7	0.4
Impact Strength (Izod, Notched)	- 30 °C	D-256	kgf.cm/cm	4.0	-	J/m	39.2	-
	23 °C			6.0	50		58.9	490.5
Rockwell Hardness, R-Scale	23 °C	D-785	-	120	85	-	120	85
				23 °C	M-Scale		85	55
Shearing Strength	23 °C	D-732	kgf/cm ²	650	600	MPa	63.8	58.9
Compressive Strength at 1% deformation	23 °C	D-695	kgf/cm ²	200	100	MPa	19.6	9.8
Table Abrasion Loss (CS-17, 1000g., Rotation)		D-1044	mg.	7	-	mg.	7	-

Thermal Properties								
Melting Point		DSC	°C	215~225	-	°C	215~225	-
Linear Thermal expansion Coefficient		D-696	10 ⁻⁵ cm/cm/°C	8	-	10 ⁻⁵ cm/cm/°C	8	-
Heat distortion Temperature	18.6 kgf/cm ²	D-648	°C	75	-	°C	75	-
	4.6 kgf/cm ²			175	-		175	-

Electrical Properties								
Volume Resistance		D-257	Ω.cm	10 ¹⁵	10 ¹²	Ω.cm	10 ¹⁵	10 ¹²
Dielectric Breakdown Strength		D-149	kV/mm	20	-	kV/mm	20	-
Dielectric Constant	60 Hz	D-150		3.9	9.0		3.9	9
	10 ³ Hz			3.8	8.0		3.8	8
	10 ⁶ Hz			3.5	4.5		3.5	4.5
Dielectric Dissipation Factor	60 Hz	D-150		0.01	0.10		0.01	0.1
	10 ³ Hz			0.02	0.10		0.02	0.1
	10 ⁶ Hz			0.02	0.12		0.02	0.12
Arc Resistance		D-495	s	119	-	s	119	-
IEC Tracking		UL-746	V	600+	-	V	600+	-

Other Properties								
Specific Gravity		D-792		1.14	-		1.14	-
Water Absorption	23°C, In Water, 24 hrs	D-570	%	1.8	-	%	1.8	-
	23°C, In Water, Saturated			10.7	-		10.7	-
Mold Shrinkage	3t, In Flow Direction	UBE Method	%	1.4	-	%	1.4	-
	3t, In Perpendicular Direction			1.5	-		1.5	-
Flammability		UL-94	-	V-2	-	-	V-2	-