

1.TYPICAL

PROPERTIES

OF



KUMHO CHEMICALS,

Test Item	Test Condition	Unit	ASTM	Value
Mechanical Properties				
Tensile Strength	23 □	Kg _f /cm ² (PSI)	D638	500 (7000)
Elongation	5mm/min	%	D638	50
Flexural Strength	23 □	Kg _f /cm ² (PSI)	D790	600 (8520)
Flexural Modulus	23 □	Kg _f /cm ² (PSI)	D790	20000 (284000)
Rockwell Hardness	R scale	-	D785	104
Impact Properties				
Izod Impact strength	3.2mm, Notched, 23 □(73 □)	Kg.cm/cm (ft.lb/in)	D256	26 (4.8)
	6.4mm, Notched, 23 □(73 □)	Kg.cm/cm (ft.lb/in)	D256	22 (4.1)
	3.2mm, Notched, -30 □(-20 □)	Kg.cm/cm (ft.lb/in)	D256	
	6.4mm, Notched, -30 □(-20 □)	Kg.cm/cm (ft.lb/in)	D256	
Thermal Properties				
Heat Distortion Temp.	4.5kg _f /cm ² (66psi), unannealed	□(□)	D648	
	18.6kg _f /cm ² (264psi), unannealed	□(□)	D648	87 (183)
Vicat Softening Temp.	-	□(□)	D1525	95 (203)
Physical Properties				
Melt Flow Index	200□, 5kg 220□, 10kg 230□, 3.8kg	g/10min g/10min g/10min	D1238	1.2 10
Mold Shrinkage	-	%	D955	0.4 – 0.7
Specific Gravity	-		D792	1.04
Water absorbtion	24hr, Immersion in water	%	D570	
UV Resistance	300Hr, Ivory	□E	D4459	
Dielectric Strength	-	V/mil	D149	
Volume Resistivity	-	Ω	D257	
Flammability				
	1/16"(1.6mm)	Class	UL94	HB □□
	1/12"(2.2mm)	Class	UL94	HB □□
	1/18"(3.2mm)	Class	UL94	HB □□