

1.TYPICAL

PROPERTIES

OF



ABS780

KUMHOCHEMICALS,

Test Item	Test Condition	Unit	ASTM	Value
Mechanical Properties				
Tensile Strength	73 F	Kg _f /cm ² (PSI)	D638	500 (7000)
Elongation	5mm/min	%	D638	30
Flexural Strength	73 F	Kg _f /cm ² (PSI)	D790	670 (9500)
Flexural Modulus	73 F	Kg _f /cm ² (PSI)	D790	24000 (340000)
Rockwell Hardness	L scale	-	D785	108
Impact Properties				
Izod Impact strength	3.2mm, Notched, 23C(73F)	Kg.cm/cm (ft.lb/in)	D256	26 (4.7)
	6.4mm, Notched, 23C(73F)	Kg.cm/cm (ft.lb/in)	D256	23 (4.2)
	3.2mm, Notched, -30C(-20F)	Kg.cm/cm (ft.lb/in)	D256	
	6.4mm, Notched, -30C(-20F)	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	85 (185)
Vicat Softening Temp.	-	□(□)	D1525	95 (203)
Physical Properties				
Melt Flow Index	200C, 5kg 220C, 10kg 230C, 3.8kg	g/10min g/10min g/10min	D1238	5.5
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