

PAC TEC MATERIAL SPECIFICATIONS ABS 94 HB:

CHI MEI POLYAC ABS PA-756 UL FILE #: E56070

PROPERTY	METHOD	UNIT	ABS 94HB
PHYSICAL			
Melt Flow Index 200(C x 5 kg (cond. G)	ASTM D1238	g/10 min	4.5
230(C x 3.8 kg (cond. I)	ASTM D1238	g/10 min	14
220(C x 10 kg	ISO 1133	g/10 min	50
Specific Gravity	ASTM D792	-----	1.05
Mold Shrinkage (Flow, 1/8 in)	ASTM D955	in/in x 10-3	3-7
MECHANICAL @73(C			
Izod Impact Strength (Notched) 1/8"	ASTM D256	ft (lb/in (J/m)	3.2 (171)
Izod Impact Strength (Notched) ¼"	ASTM D256	ft (lb/in (J/m)	2.8 (149)
Tensile Strength at Yield	ASTM D638	psi Mpa	6500 45
Tensile Modulus (6mm/min)	ASTM D638	psi Mpa	405000 2792
Elongation at Break	ASTM D638	%	20
Flexural Modulus	ASTM D790	psi Mpa	370000 2551
Flexural Strength at Yield	ASTM D790	psi Mpa	10800 74
Hardness (Rockwell, R-Scale)	ASTM D785	-----	115
THERMAL			
Heat Deflection Temp. (1/4" Test Specimens)	ASTM D648		
264 psi (1.82 Mpa) Unannealed		(F((C)	192 (89)
264 psi (1.82 Mpa) Annealed ((F((C)	210 (99)
66 psi (0.46 Mpa) Unannealed		(F((C)	210 (99)
Vicat Softening Temp (1kg, 50(C/hr)	ASTM D1525	(F((C)	221 (105)
Coefficient of Thermal Expansion	ASTM D696	in/in/(F x 10-5	5.4
(-40(C (80(C, Annealed)		mm/mm/(F x 10-5	9.8
ELECTRICAL @73(F			
Volume Resistivity	ASTM D257	ohm-cm	> 10 ¹⁵
FLAME CLASS RATING			
UL 94HB (Min. Tested Thickness)	UL94	in (mm)	0.062 (1.57)