



TAITALAC 3100M

ABS Resin

CHARACTERISTICS

- Extrusion/Injection
- High rubber content
- Super high impact strength and rigidity
- High fatigue resistance

Properties	Test	Test Condition	SI unit		English unit	
			Unit	s.p.	Unit	s.p.
Specific Gravity	ASTMD792			1.03		
Melt Flow Index	ASTMD1238	200°C , 5kg load	g/10min	0.6		
Melt Flow Index	ASTMD1238	220°C , 10kg load	g/10min	7.0		
Mechanical						
Izod Impact Strength	ASTMD256	23°C , 1/4 in notched	kg-cm/cm	33	ft-lb/in	6.2
Izod Impact Strength	ASTMD256	23°C , 1/8 in notched	kg-cm/cm	39	ft-lb/in	7.2
Tensile Strength at Yield	ASTMD638	23°C , 1/8 in, 5 mm/min	kg/cm ²	390	psi	5600
Tensile Strength at Break	ASTMD638	23°C , 1/8 in, 5 mm/min	kg/cm ²	340	psi	4800
Elongation at Break	ASTMD638	23°C , 1/8 in, 5 mm/min	%	40		
Flexural Yield	ASTMD790	23°C , 2.8 mm/min	kg/cm ²	600	psi	8500
Flexural Modulus	ASTMD790	23°C , 2.8 mm/min	kg/cm ²	21000	psi	300000
Thermal						
Heat Distortion Temperature	ASTMD648	Unannealed, 1/2 in, 18.56 kg/cm ² load pressure	°C	85	°F	185
Vicat Softening Temperature	ASTMD1525	1/8 in , 1 kg load	°C	101	°F	214
Physical						
Rockwell Hardness	ASTMD785	23°C , R-scale	R-scale	100		
Mold Shrinkage	ASTMD955		%	≤ 0.4		
Water Absorption	ASTMD570		wt %	≤ 0.3		
Flammability	UL-94	1/16 in	File No E50263	-		
Electrical						
Relative Temperature Index	UL-746B	0.062 in above	°C	-	°F	-
Hot Wire Ignition	UL-746A	0.062 in above	Secs	-		
High Current Arc Ignition	UL-746A	0.062 in above	Arcs	-		
Arc Tracking Rate	UL-746A	0.062 in above	in/min	-		

APPLICATION

- Shoes
- Extruded plate
- Vacuum molding
- Compounding
- Extruded film
- Refrigerator

