



TAITALAC 3100R

ABS Resin

CHARACTERISTICS

- Super high impact strength and rigidity
- Extrusion/Injection

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	8.0		
Mechanical						
Izod Impact Strength	ASTMD256	23°C, 1/4in notched	kg-cm/cm	43	ft-lb/in	7.3
Izod Impact Strength	ASTMD256	23°C, 1/8 in notched	kg-cm/cm	48	ft-lb/in	8.8
Tensile Strength at Yield	ASTMD638	23°C, 1/8 in, 5 mm/min	kg/cm ²	420	psi	5900
Tensile Strength at Break	ASTMD638	23°C, 1/8 in, 5 mm/min	kg/cm ²	370	psi	4600
Elongation at Break	ASTMD638	23°C, 1/8 in, 5 mm/min	%	30		
Flexural Yield	ASTMD790	23°C, 2.8 mm/min	kg/cm ²	620	psi	8700
Flexural Modulus	ASTMD790	23°C, 2.8 mm/min	kg/cm ²	22000	psi	310000
Thermal						
Heat Distortion Temperature	ASTMD648	Unannealed, 1/2 in, 18.56 kg/cm ² load pressure	°C	87	°F	189
Vicat Softening Temperature	ASTMD1525	1/8 in, 1 kg load	°C	101	°F	214
Physical						
Rockwell Hardness	ASTMD785	23°C, R-scale	R-scale	105		
Mold Shrinkage	ASTMD955		%	≤ 0.4		
Water Absorption	ASTMD570		wt %	≤ 0.3		
Flammability						
	UL-94	1/16 in	File No E50263	HB		
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

- Automobile parts
- Motorcycle parts
- Helmets
- Shoe Heel
- Profile Extrusion
- Low temperature use

