



TAITALAC 3100R
ABS Resin

Acrylonitrile Butadiene Styrene (ABS) Resin

Characteristics	Applications
<ul style="list-style-type: none"> Super high impact strength and rigidity Extrusion/Injection 	<ul style="list-style-type: none"> Automobile parts Motorcycle parts Shoe Heel Profile Extrusion Low temperature use

Properties	Test	Test Condition	SI unit	
			Unit	s.p.
Rheological Properties				
Specific Gravity	ASTM D792	23°C	g/cm ³	1.03
Melt Volume Rate	ASTM D1238	200°C, 5kg load	g/10min	0.6
Melt Volume Rate	ASTM D1238	220°C, 10kg load	g/10min	8.0
Mechanical Properties				
Izod Impact Strength	ASTMD256	23°C, 1/4" Notched	kg-cm/cm	43
Izod Impact Strength	ASTMD256	23°C, 1/8" Notched	kg-cm/cm	48
Tensile Strength at Yield	ASTMD638	23°C, 5 mm/min	kg/cm ²	420
Tensile Strength at Break	ASTMD638	23°C, 5 mm/min	kg/cm ²	370
Elongation at Break	ASTMD638	23°C, 5 mm/min	%	30
Flexural Yield	ASTMD790	23°C, 2.8 mm/min	kg/cm ²	620
Flexural Modulus	ASTMD790	23°C, 2.8 mm/min	kg/cm ²	22000
Thermal Properties				
Heat Distortion Temperature	ASTMD648	unannealing 1.8MPa	°C	87
Vicat Softening Temperature	ASTMD1525	50°C/hr, 1 kg load	°C	103
Physical Properties				
Rockwell Hardness	ASTMD785	23°C, R-scale	R-scale	100
Mold Shrinkage	ASTMD955	60×60×2mm S _{Flow}	%	≤ 0.4
Moisture Absorption Equilibrium	ASTMD570	23°C/50% RH	wt %	≤ 0.3
Flammability				
	UL-94	1/16 inch	No E50263	HB
Electrical				
Relative Temperature Index	UL-746B	0.062 inch above	°C	-
Hot Wire Ignition	UL-746A	0.062 inch above	Secs	-
High Current Arc Ignition	UL-746A	0.062 inch above	Arcs	-
Arc Tracking Rate	UL-746A	0.062 inch above	in/min	-

Note : The data listed represent average values and are believed to be reliable. They are given for information; no guarantee of their accuracy is made.