

TORAY

ABS

700 314 U

Product information				
Manufacturer	Toray Industries, Inc			
Color	NC WT			
Material Shape	Pellets Powder			
Process	Injection molding			
FR	HB			
Features	Medium Impact			
Application	Automotive applicationsAutomotive exterior partsAutomotive interior partsE & E ApplicationsToysConstruction ApplicationsWindows & DoorsAppliancesHome Appliances ApplicationsWhite goods & small appliancesHousingElectronic materialIndustrial ApplicationsKitchenwareCell phonesFurnitureCosmeticsCamera applicationsComputer parts			
Flammability	Condition	Standard	Value	Unit
Flame	Rating All Color 1.2mm	UL94	HB	
Flame	Rating All Color 1.5mm	UL94	HB	
Flame	Rating All Color 3.0mm	UL94	HB	
Hardness	Condition	Standard	Value	Unit
Rockwell	Hardness R(Scale) 23°C	ISO 2039	115	
Mechanical behavior	Condition	Standard	Value	Unit
Charpy	Notch Impact 23°C	ISO 179	17.0	kJ/m ²
Elongation	Break 23°C	ISO 527	18	%
Flexural	Strength 23°C	ISO 178	81	MPa
Flexural	Modulus 23°C	ISO 178	2540	MPa
Tensile	Strength 23°C	ISO 527	54	MPa
Physical property	Condition	Standard	Value	Unit
Density	23°C	ISO 1183	1.05	g/cm ³
Melt	Index 220°C 10kg	ISO 1133	23	g/10min
Shrinkage	23°C 50RH	INTERNAL METHOD	0.40~0.60	%
Thermal	Condition	Standard	Value	Unit
CLE	Flow	ASTM D696	7.1E-5	cm/cm/°C
HDT	Unannealed 1.8MPa	ISO 75	82	°C
Vicat	Softening Temperature	INTERNAL METHOD	95	°C
UL	Condition	Standard	Value	Unit
Arc	Resistance	ASTM D495	5	PLC
Comparative	Tracking Index	IEC 60112	1	PLC
Dielectric	Strength	ASTM D149	27	KV/mm
Dimensional	Stability	UL746	0.0	%
HAI	ALL 1.5mm	UL 746A	0	PLC

HAI	ALL 3.0mm	UL 746A	0	PLC
HVTR		UL 746A	2	PLC
HWI	ALL 1.5mm	UL 746A	4	PLC
HWI	ALL 3.0mm	UL 746A	4	PLC
RTI	Elec ALL 1.2mm	UL 746B	60	°C
RTI	Elec ALL 1.5mm	UL 746B	60	°C
RTI	Elec ALL 3.0mm	UL 746B	60	°C
RTI	Imp ALL 1.2mm	UL 746B	60	°C
RTI	Imp ALL 1.5mm	UL 746B	60	°C
RTI	Imp ALL 3.0mm	UL 746B	60	°C
RTI	Str ALL 1.2mm	UL 746B	60	°C
RTI	Str ALL 1.5mm	UL 746B	60	°C
RTI	Str ALL 3.0mm	UL 746B	60	°C
UL	FlameRating ALL 1.2mm	UL94	HB	
UL	FlameRating ALL 1.5mm	UL94	HB	
UL	FlameRating ALL 3.0mm	UL94	HB	
Volume	Resistivity	ASTM D257	1E+16	Ω.cm