

CHIMEI

ABS

D-190

Product information				
Color	NC			
Material Shape	Pellets			
Process	Injection molding			
FR	HB			
Features	High gloss, high stiffness, General purpose grade			
Application	Toys, lamp holders,General purpose			
UL	Condition	Standard	Value	Unit
RTI	Elec All Color 1.5mm	UL 746B	60	°C
RTI	Elec All Color 3.0mm	UL 746B	60	°C
RTI	Imp All Color 1.5mm	UL 746B	60	°C
RTI	Imp All Color 3.0mm	UL 746B	60	°C
RTI	Str All Color 1.5mm	UL 746B	60	°C
RTI	Str All Color 3.0mm	UL 746B	60	°C
Flame Rating	All Color 1.5mm	UL94	HB	
Flame Rating	All Color 3.0mm	UL94	HB	
Mechanical behavior	Condition	Standard	Value	Unit
Elongation	50mm/min	ISO 527	15	%
Elongation	6mm/min 3.2mm	ASTM D638	15	%
Flexural Strength	2.0mm/min	ISO 178	78	MPa
Flexural Strength	2.8mm/min 6.4mm	ASTM D790	790	kg/cm ²
Flexural Modulus	2.0mm/min	ISO 178	2.3	GPa
Flexural Modulus	2.8mm/min 6.4mm	ASTM D790	26000	kg/cm ²
Izod Notch Impact	23°C 4.0mm	ISO 180	14	kJ/m ²
Izod Notch Impact	23°C 6.4mm	ASTM D256	16	kg-cm/cm
Izod Notch Impact	23°C 3.2mm	ASTM D256	17	kg-cm/cm
Tensile Strength	50mm/min	ISO 527	48	MPa
Tensile Strength	6mm/min 3.2mm	ASTM D638	480	kg/cm ²
Charpy Notch Impact	23°C 4.0mm	ISO 179	15	kJ/m ²
Thermal	Condition	Standard	Value	Unit
HDT	Annealed 1.8MPa	ISO 75	95	°C
HDT	Unannealed 1.8MPa	ISO 75	80	°C
HDT	Annealing treatment at 85°C for 8 hours	ASTM D648	99	°C
HDT	Unannealed	ASTM D648	88	°C
Vicat Softening Temperature	50°C/hr 10N	ISO 306	104	°C
Vicat Softening Temperature	50°C/hr 3.2mm	ASTM D1525	105	°C
Physical property	Condition	Standard	Value	Unit

Density	23°C	ISO 1183	1.04	g/cm ³
Density	23°C	ASTM D792	1.05	g/cm ³
Melt Index	200°C 5kg	ISO 1133	2.1	cm ³ /10min
Melt Index	220°C 10kg	ISO 1133	22	cm ³ /10min
Melt Index	200°C 5kg	ASTM D1238	2.1	g/10min
Hardness	Condition	Standard	Value	Unit
Rockwell Hardness	R(Scale)	ASTM D785	105	
Rockwell Hardness	R(Scale) 12.7mm	ASTM D785	110	
Flammability	Condition	Standard	Value	Unit
Flame Rating	All Color 1.5mm	UL94	HB	
Flame Rating	All Color 3.0mm	UL94	HB	