TORAY
Innovation by Chemistry

ABS Resin
TOYOLAC

Property	Test Condition	Test Method ISO	Units	Transparent
				Middle impact
				900-352
				>MABS<
Physical property				
Density	23℃	ISO1183	kg/m^3	1080
Specific Gravity		ASTM D792	-	1.08
Mechanical property				
Tensile strength	23℃	ISO527-1,2	MPa	48
Tensile strength		ASTM D638	MPa	41
Tensile elongation at Break		ASTM D638	%	40
Elongation at Break	23℃	ISO527-1,2	%	15
Flexural Strength	23℃	ISO178	MPa	66
Flexural Strength		ASTM D790	MPa	63
Flexural Modulus	23℃/50%RH	ISO 178	MPa	1870
Flexural Modulus		ASTM D790	MPa	1810
Rockwell Hardness	23℃	ISO2039-2	R Scale	108
Rockwell Hardness	23℃/50%RH	ASTM D785	Rスケール	108
Charpy Impact Strength（V-notched）	23℃	ISO179	kJ/m^2	12
Ball Pressure Temp./0.1mm Vicat Softening Temp.			℃	90～90
Izod Impact Strength（V-notched）	23℃ 12.7mm	ASTM D256	J/m	137
Izod Impact Strength（V-notched）	23℃　3.2mm	ASTM D256	J/m	157
Heat property				
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	76
Heat Deflection Temp(Unannealed)High Load	6.4mm/1.82MPa	ASTM D648	℃	81
Flammability		UL94	rank/thickness mmt	HB
Molding property				
Mold shrinkage	23℃/50%RH	Toray Method	%	0.4-0.6
Melt Flow Rate	220℃/98N	ISO 1133	g/10min	18
Optical property				
Total Light Transmission	23℃/50%RH　3mm thickness	ISO 13468	%	86
Haze	23℃/50%RH　3mm thickness	ISO 14782	%	2
			PDF DOWNLOAD	

Applications of toyolac

Digital home appliance　Special use　Generic Component/Livingware　Electric home appliance

COPYRIGHT ©2013 TORAY INDUSTRIES,INC.