

Property	Test Condition	Test Method ISO	Units	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	
				Middle impact	High impact	High rigidity	High flow, High rigidity	High flow, Middle impact	Super high rigidity	Super high impact	Extrusion	
				700-314	100-322	500-322	250-X10	700-X01	560-X17	300-325	600-309	
				>ABS<	>ABS<	>ABS<	>ABS<	>ABS<	>ABS<	>ABS<	>ABS<	
Physical property												
Density	23°C	ISO1183	kg/m ³	1050	1040	1050	1050	1050	1050	1050	1040	1040
Specific Gravity		ASTM D792	-	1.05	1.04	1.05	1.05	1.05	1.05	1.05	1.04	1.04
Mechanical property												
Tensile strength	23°C	ISO527-1,2	MPa	54	54	59	57	51	55		43	47
Tensile strength		ASTM D638	MPa	50	49	54	51	47	51		39	45
Tensile elongation at Break		ASTM D638	%	35	48	37	20	15	17		50	50
Elongation at Break	23°C	ISO527-1,2	%	18	13	12	16	21	21		16	14
Flexural Strength	23°C	ISO178	MPa	81	78	89	83	74	90		60	69
Flexural Strength		ASTM D790	MPa	76	74	81	77	75	84		57	65
Flexural Modulus	23°C/50%RH	ISO 178	MPa	2540	2350	2690	2580	2370	2960		1800	2080
Flexural Modulus		ASTM D790	MPa	2450	2300	2600	2550	2350	2880		1810	2060
Rockwell Hardness	23°C	ISO2039-2	R Scale	115	113	116	115	114	118		100	106
Rockwell Hardness	23°C/50%RH	ASTM D785	Rスケール	115	113	116	115	114	118		100	106
Charpy Impact Strength (Unnotched)	23°C	ISO179	kJ/m ²	17	20	13	10	17	6		27	22
Ball Pressure Temp./0.1mm Vicat Softening Temp.			°C	95~95	95~95	95~95	95~95	95~95	95~95		90~95	90~95
Izod Impact Strength (V-notched)	23°C 12.7mm	ASTM D256	J/m	186	226	137	108	186	69		333	275
Izod Impact Strength (V-notched)	0°C 12.7mm	ASTM D256	J/m	108	177	98	78	108	39		206	-
Izod Impact Strength (V-notched)	-30°C 12.7mm	ASTM D256	J/m	78	118	69	69	78	29		147	-
Izod Impact Strength (V-notched)	23°C 3.2mm	ASTM D256	J/m	196	265	137	167	196	69		343	461
Izod Impact Strength (V-notched)	0°C 3.2mm	ASTM D256	J/m	157	196	98	88	157	49		235	-
Izod Impact Strength (V-notched)	-30°C 3.2mm	ASTM D256	J/m	118	137	78	69	108	39		157	-
Heat property												
Coef of Linear Thermal Expansion	-	ASTM D696	°C ⁻¹	0.000071	0.000074	0.000069	0.00007	0.000072	0.000064		0.000083	-
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C	82	83	85	83	81	83		80	82
Heat Deflection Temp(Unannealed)High Load	6.4mm/1.82MPa	ASTM D648	°C	87	87	88	87	86	87		84	86
Flammability		UL94	rank/thickness mm	-	-	-	-	-	-		-	-
Electrical property												
Electrostatic Voltage	23°C,50%,24hr	Toray Method	V	-	-	-	-	-	-		-	-
Half-life period of Electrostatic Voltage decay	23°C,50%,24hr	Toray Method	Sec.	-	-	-	-	-	-		-	-
Surface Resistivity	23°C,50%,24hr	ASTM D257	Ω	-	-	-	-	-	-		-	-
Molding property												
Mold shrinkage	23°C/50%RH	Toray Method	%	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6		0.4-0.6	0.4-0.6
Melt Flow Rate	200°C/49N	ISO 1133	g/10min	-	-	-	-	-	-		-	-
Melt Flow Rate	220°C/98N	ISO 1133	g/10min	23	15	20	48	40	25		10	12
Melt Flow Rate	240°C/98N	ISO 1133	g/10min	-	-	-	-	-	-		-	-
Optical property												
Gloss	an angle of incidence 60°C	Toray Method	%	-	-	-	-	-	-		-	-
Total Light Transmission	23°C/50%RH 3mm thickness	ISO 13468	%	-	-	-	-	-	-		-	-
Haze	23°C/50%RH 3mm thickness	ISO 14782	%	-	-	-	-	-	-		-	-

These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.

Property	Test Condition	Test Method ISO	Units	Standard	
				Extrusion	
				600-X06	
				>ABS<	
Physical property					
Density	23°C	ISO 1183	kg/m ³		1040
Specific Gravity		ASTM D792	-		1.04
Mechanical property					
Tensile strength	23°C	ISO 527-1,2	MPa		57
Tensile strength		ASTM D638	MPa		50
Tensile elongation at Break		ASTM D638	%		64
Elongation at Break	23°C	ISO 527-1,2	%		10
Flexural Strength	23°C	ISO 178	MPa		78
Flexural Strength		ASTM D790	MPa		74
Flexural Modulus	23°C/50% RH	ISO 178	MPa		2360
Flexural Modulus		ASTM D790	MPa		2230
Rockwell Hardness	23°C	ISO 2039-2	R Scale		115
Rockwell Hardness	23°C/50% RH	ASTM D785	Ｒスケール		115
Charpy Impact Strength (Unnotched)	23°C	ISO 179	kJ/m ²		21
Ball Pressure Temp./0.1mm Vicat Softening Temp.			°C		90~95
Izod Impact Strength (V-notched)	23°C 12.7mm	ASTM D256	J/m		184
Izod Impact Strength (V-notched)	0°C 12.7mm	ASTM D256	J/m		-
Izod Impact Strength (V-notched)	-30°C 12.7mm	ASTM D256	J/m		-
Izod Impact Strength (V-notched)	23°C 3.2mm	ASTM D256	J/m		-
Izod Impact Strength (V-notched)	0°C 3.2mm	ASTM D256	J/m		-
Izod Impact Strength (V-notched)	-30°C 3.2mm	ASTM D256	J/m		-
Heat property					
Coef of Linear Thermal Expansion	-	ASTM D696	°C ⁻¹		-
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	°C		83
Heat Deflection Temp(Unannealed)High Load	6.4mm/1.82MPa	ASTM D648	°C		90
Flammability		UL94	rank/thickness mmt		-
Electrical property					
Electrostatic Voltage	23°C,50%,24hr	Toray Method	V		-
Half-life period of Electrostatic Voltage decay	23°C,50%,24hr	Toray Method	Sec.		-
Surface Resistivity	23°C,50%,24hr	ASTM D257	Ω		-
Molding property					
Mold shrinkage	23°C/50% RH	Toray Method	%		0.4-0.6
Melt Flow Rate	200°C/49N	ISO 1133	g/10min		-
Melt Flow Rate	220°C/98N	ISO 1133	g/10min		5
Melt Flow Rate	240°C/98N	ISO 1133	g/10min		-
Optical property					
Gloss	an angle of incidence 60°C	Toray Method	%		-
Total Light Transmission	23°C/50% RH 3mm thickness	ISO 13468	%		-
Haze	23°C/50% RH 3mm thickness	ISO 14782	%		-

These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.