

<b>Material : ABS</b>																
<b>Manufacturer : Lotte Advanced Materials Brand Name : STAREX</b>															<b>Manufacturer: LG Chem</b>	
<b>Property</b>				<b>General Purpose</b>	<b>Pre-Color ed</b>	<b>High Impac t</b>	<b>Metal Platin g</b>	<b>Paint able</b>	<b>Heat Resistant</b>		<b>Paint-Free Lumi nous</b>	<b>High Flow</b>	<b>Blow Moldin g</b>	<b>Flame retardant</b>		<b>General Purpose</b>
<b>Property</b>	<b>Test Method</b>	<b>Condition</b>	<b>Unit</b>	<b>SD-0150W</b>	<b>SD-0150</b>	<b>SD-0170</b>	<b>MP-0160R</b>	<b>PT-0180</b>	<b>SR-300</b>	<b>SR-320</b>	<b>LX-0760</b>	<b>HF-0660I</b>	<b>BM-0320J</b>	<b>VE-800</b>	<b>VE-815</b>	<b>LG HI121H</b>
Specific Gravity	ASTM D792	Natural or representative color		1.04	1.04	1.04	1.04	1.04	1.05	1.06	1.04	1.04	1.04	1.17	1.18	1.04
Melt Flow Index	ASTM D1238	200°C, 10kg	g/10min				17		13	9						23
		200°C, 5kg		2.2	2.0	1.4	1.5	3.6			3.2	3.3	4	5.4	3.5	
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.4-0.7	0.4-0.7	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.4-0.7
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.4-0.7	0.4-0.7	0.3-0.6	0.3-0.6	0.4-0.7	0.3-0.6	0.3-0.6	0.4-0.7
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm <sup>2</sup>	420	420	340	480	400	450	420	420	400	420	420	400	520
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	630	630	500	690	610	620	650	610	600	620	620	600	800
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	22000	21000	17000	23000	20000	23000	22000	21000	22000	22000	22000	22000	28000
Izod Impact Strength (notched)	ASTM D256	1/4 inch at 23°C	kgf/cm.cm	19	20	33	28	20	23	17	14	19	26	20	25	20
Rockwell Hardness	ASTM D785	R-scale		110	109	95	109	106	110	110	107	109		107	100	110
Heat Deflection Temperature	ASTM D648	18.56kgf/cm <sup>2</sup> , 6.4mm	°C	82	84	84	88		88	93	85		97	70	77	86
VICAT Softening Temperature	ISO R 306	B/50	°C	97	99	93	100	97	102	106	96	94	104	86	86	94
Flammability	UL 94		Recognized	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	1.5,3.0, 6.0 V-0	1.5, V-1 2.0,2.5,3.0 V-0 2.0 5VB 2.5,3.0 5VA	HB

<b>MABS</b>					
<b>Manufacturer</b>				<b>Lotte</b>	<b>LG</b>
<b>Property</b>	<b>Test Method</b>	<b>Condition</b>	<b>Unit</b>	<b>TX-0520T</b>	<b>TR- 551</b>
Specific Gravity	ASTM D792	Natural or representative color	-	1.1	1.13
Melt Flow Index	ASTM D1238	200°C, 10kg	g/10min	16	10
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.4-0.8	0.4-0.7
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.4-0.8	0.4-0.7
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm <sup>2</sup>	450	580
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	650	920
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	21000	26000
Izod Impact Strength (notched)	ASTM D256	1/4 inch at 23°C	kgf/cm.cm	17	13
Rockwell Hardness	ASTM D785	R-scale		109	116
Heat Deflection Temperature	ASTM D648	18.56kgf/cm <sup>2</sup> , 6.4mm	°C	70	86
VICAT Softening Temperature	ISO R 306	B/50	°C	88	96
Flammability	UL 94		Recognized	HB	HB
Transmissivity	ASTM D1925	3.2mm	%	88	90
Haze	ASTM D1003	3.2mm	%	2.5	1.9