



Starex TX-0510T			
ABS		Samsung Cheil Industries	
Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index	16	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Density, 73°F	1100	kg/m³	ASTM D 792
Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	16	g/10min	ISO 1133
MFI temperature	220	°C	ISO 1133
MFI load	10	kg	ISO 1133
Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2200	MPa	ISO 527-1/-2
Yield stress	47	MPa	ISO 527-1/-2
Yield strain	16	%	ISO 527-1/-2
Stress at break	35	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	13	kJ/m²	ISO 179/1eA
Flexural modulus (23°C)	2200	MPa	ISO 178
Izod Impact notched, 23°C	10	kJ/m²	ISO 180/1A
Rockwell hardness	R 110	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Strength at Yield	44	MPa	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Flexural Strength	64	MPa	ASTM D 790
Rockwell Hardness	R 109	-	ASTM D 785
Izod Impact notched, 1/8 in	0.15	kJ/m	ASTM D 256
Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	72	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	83	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	88	°C	ISO 306
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
Other properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density	1100	kg/m³	ISO 1183
Optical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Haze	2.8	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Characteristics			
Delivery form	Features		
Pellets, Natural Color	Low Odor		