



Starex TX-0520T			
ABS		Samsung Cheil Industries	
Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	15	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
ISO Data			
Melt flow index, MFI	15	g/10min	ISO 1133
MFI temperature	220	°C	ISO 1133
MFI load	10	kg	ISO 1133
Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2100	MPa	ISO 527-1/-2
Yield stress	47	MPa	ISO 527-1/-2
Yield strain	15	%	ISO 527-1/-2
Stress at break	34	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	12	kJ/m²	ISO 179/1eA
Flexural modulus (23°C)	2200	MPa	ISO 178
Izod Impact notched, 23°C	12	kJ/m²	ISO 180/1A
Rockwell hardness	R 110	-	ISO 2039-2
ASTM Data			
Tensile Strength at Yield	42	MPa	ASTM D 638
Flexural Modulus	2000	MPa	ASTM D 790
Flexural Strength	59	MPa	ASTM D 790
Rockwell Hardness	R 106	-	ASTM D 785
Izod Impact notched, 1/8 in	0.16	kJ/m	ASTM D 256
Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	71	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	81	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	87	°C	ISO 306
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
Other properties	Value	Unit	Test Standard
ISO Data			
Density	1100	kg/m³	ISO 1183
Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	3	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Characteristics			
Delivery form		Features	
Pellets, Natural Color		Low Odor	