TECHNICAL DATA SHEET

STAREX TX-0510T

Lotte Chemical Corporation

MABS

Processing

Other extrusion

Delivery Form

Pellets, Natural color

Applications

Electrical and electronical

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	16	g/10min	ISO 1133
Temperature	220	°C	
Load	10	kg	
Melt flow index, MFI	16	g/10min	ASTM D 1238
Temperature	220	°C	
Load	10	kg	

Mechanical Properties	Value	Unit	Standard
Tensile modulus	2200	MPa	ISO 527
Yield stress	47	MPa	ISO 527
Stress at break	35	MPa	ISO 527
Strain at break	16	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	70	MPa	ISO 178
Charpy notched impact strength, +23°C	13	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m²	ISO 180/1A
Rockwell hardness	R 110		ISO 2039-2
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	150	J/m	ASTM D 256

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Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	70	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	83	°C	ISO 75-1/-2
Vicat softening temperature, B	88	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	
UL 94 flame rating	HB		UL 94
Thickness tested	1.5	mm	

Optical Properties	Value	Unit	Standard
Haze	2.8	%	ASTM D 1003
Light transmittance	88	%	ASTM D 1003

Other Properties	Value	Unit	Standard
Density	1100	kg/m³	ISO 1183
Density	1100	kg/m³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Standard
Pre-drying - temperature	80	°C	
Pre-drying - time	4 - 6	h	
Processing humidity	≤0.05	%	
Melt temperature	220	°C	
Mold temperature	50 - 70	°C	
Zone 1	180 - 190	°C	
Zone 2	200 - 210	°C	
Zone 3	220 - 230	°C	
Nozzle temperature	230	°C	