

STAREX TX-0510

MABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	16	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	16	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0047	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0049	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Yield stress	47	MPa	ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	70	MPa	ISO 178
Charpy notched impact strength, +23°C	13	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
Rockwell hardness	R 110	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	44	MPa	ASTM D 638
Tensile Strength at Break	32	MPa	ASTM D 638
Elongation at Break	19	%	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
Izod Impact notched, 1/4 in	150	J/m	ASTM D 256
Thermal properties			
ISO Data			
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	3.0	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 264 psi	78	°C	ASTM D 648
Other properties			
Value			
Density	1100	kg/m ³	ISO 1183
Density	1100	kg/m ³	ASTM D 792
Processing Recommendation Extrusion			
Value			
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	230	°C	-
Mold temperature	40 - 60	°C	-
Zone 1	200 - 215	°C	-
Zone 2	215	°C	-
Zone 3	215 - 230	°C	-

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Nozzle temperature

230

°C

-

Characteristics**Processing**

Other Extrusion

Applications

Electrical and Electronical

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific