

STAREX TX-0510F

MABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	14	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	14	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.004	mm/mm	ASTM D 955
Mechanical properties			
ISO Data	Value	Unit	Test Standard
Tensile Modulus	2100	MPa	ISO 527
Yield stress	47	MPa	ISO 527
Stress at break	32	MPa	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	70	MPa	ISO 178
Charpy notched impact strength, +23°C	12	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
Rockwell hardness	R 106	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	42	MPa	ASTM D 638
Tensile Strength at Break	34	MPa	ASTM D 638
Elongation at Break	30	%	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	160	J/m	ASTM D 256
Izod Impact notched, 1/4 in	160	J/m	ASTM D 256
Thermal properties			
ISO Data	Value	Unit	Test Standard
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
ASTM Data			
DTUL @ 66 psi	88	°C	ASTM D 648
DTUL @ 264 psi	80	°C	ASTM D 648
Optical properties			
ASTM Data	Value	Unit	Test Standard
Haze	3	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003
Other properties			
Value	Unit	Test Standard	
Density	1100	kg/m ³	ISO 1183
Density	1100	kg/m ³	ASTM D 792
Processing Recommendation Extrusion			
Value	Unit	Test Standard	
Pre-drying - Temperature	85	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240	°C	-

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Mold temperature	60	°C	-
Zone 1	210 - 220	°C	-
Zone 2	210 - 220	°C	-
Zone 3	230	°C	-
Nozzle temperature	240	°C	-

Characteristics**Processing**

Other Extrusion

Applications

Packaging

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific

Certifications

Food contact