

Starex TX-0510F

Methyl Methacrylate / ABS
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex TX-0510F is a methyl methacrylate/ABS (MABS) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: containers.

General Information			
UL YellowCard	E115797-101048865		
Uses	Food container		
Appearance	Clear/transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	14	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.30	%	ASTM D955
Transverse flow: 3.20mm	0.40	%	ASTM D955
Lateral flow: 3.20mm	0.40	%	ISO 2577
Traffic: 3.20mm	0.30	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	106		ASTM D785
R scale	106		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2100	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	42.0	MPa	ASTM D638
Yield	47.0	MPa	ISO 527-2/5
Fracture ³	34.0	MPa	ASTM D638
Fracture	32.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ⁴	30	%	ASTM D638
Fracture	15	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2200	MPa	ISO 178
Flexural Strength			
-- ⁷	59.0	MPa	ASTM D790

-- 8	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	12	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	160	J/m	ASTM D256
23°C, 6.35 mm	160	J/m	ASTM D256
23°C ¹⁰	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	88.0	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	81.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	80.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	71.0	°C	ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Transmittance			
3200 μm	88.0	%	ASTM D1003
3200 μm	88.0	%	ISO 13468
Haze			
3200 μm	3.0	%	ASTM D1003
3200 μm	3.0	%	ISO 13468
Yellowness Index (3.20 mm)	-1.4	YI	ASTM D1925
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4mm		
10.	Thickness: 4mm		

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