Starex TX-0510T

Methyl Methacrylate / ABS

Lotte Chemical Corporation



Technical Data

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Proc	luct	Descri	ntion
1 100	luct	DESCH	

Starex TX-0510T is a Methyl Methacrylate / ABS (MABS) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary attribute of Starex TX-0510T: Flame Rated.

General

Material Status	Commercial: Active
Literature ¹	 Processing (English) Technical Information - ASTM (English) Technical Information - ISO (English)
UL Yellow Card ²	• E115797-101048865
Search for UL Yellow Card	Lotte Chemical Corporation

Starex

· Africa & Middle East

 Europe Availability · North America Asia Pacific Latin America

Physical	Nominal Value Unit	Test Method	
Density / Specific Gravity (Natural)	1.10 g/cm ³	ASTM D792 ISO 1183	
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	16 g/10 min	ASTM D1238 ISO 1133	
Mechanical	Nominal Value Unit	Test Method	
Tensile Modulus	2200 MPa	ISO 527-2/50	
Tensile Strength			
Yield ⁴	44.0 MPa	ASTM D638	
Yield	47.0 MPa	ISO 527-2/50	
Break	35.0 MPa	ISO 527-2/50	
Tensile Strain (Break)	16 %	ISO 527-2/50	
Flexural Modulus			
5	2100 MPa	ASTM D790	
6	2200 MPa	ISO 178	
Flexural Strength			
5	64.0 MPa	ASTM D790	
6	70.0 MPa	ISO 178	
Impact	Nominal Value Unit	Test Method	
Charpy Notched Impact Strength ⁷ (23°C)	13 kJ/m²	ISO 179/1eA	
Notched Izod Impact			
23°C, 3.18 mm	150 J/m	ASTM D256	
23°C ⁷	12 kJ/m²	ISO 180/1A	
Hardness	Nominal Value Unit	Test Method	
Rockwell Hardness			
R-Scale	109	ASTM D785	
R-Scale	110	ISO 2039-2	
Thermal	Nominal Value Unit	Test Method	
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	83.0 °C	ISO 75-2/B	
0.45 MPa, Annealed, 4.00 mm	86.0 °C	ISO 75-2/B	
1.8 MPa, Unannealed, 4.00 mm	70.0 °C	ISO 75-2/A	
1.8 MPa, Annealed, 4.00 mm	80.0°C	ISO 75-2/A	
Vicat Softening Temperature	88.0 °C	ISO 306/B50	
Flammability	Nominal Value Unit	Test Method	
Flame Rating		UL 94	
1.5 mm	HB		
3.0 mm	НВ		

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Optical	Nominal Value Unit	Test Method
Light Transmittance (81280 μm)	88.0 %	ASTM D1003
Haze (3200 μm)	2.80 %	ASTM D1003
Injection	Nominal Value Unit	

Injection	Nominal Value Unit	
Drying Temperature		
Desiccant Dryer	80 °C	
Hot Air Dryer	80 °C	
Drying Time		
Desiccant Dryer	2.0 to 4.0 hr	
Hot Air Dryer	4.0 to 6.0 hr	
Suggested Max Moisture	< 0.050 %	
Rear Temperature	180 to 190 °C	
Middle Temperature	200 to 210 °C	
Front Temperature	220 to 230 °C	
Nozzle Temperature	230 °C	
Mold Temperature	50 to 70 °C	
Injection Pressure	49.0 to 196 MPa	
Back Pressure	0.490 to 1.96 MPa	
Screw Speed	50 to 150 rpm	
Injection Notes		

Hot Runner Temperature: 220°C

Notes

1 These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

^{4 5.0} mm/min

⁵ 2.8 mm/min

⁶ 2.0 mm/min

⁷ 4mm