

Starex TX-0550

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

Message:

Starex TX-0550 is a methyl methacrylate/ABS (MABS) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Starex TX-0550 applications include electrical appliances and consumer goods.

General Information			
Uses	Electrical appliances		
	Toys		
Appearance	Clear/transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
natural color	1.09	g/cm ³	ASTM D792
natural color	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	25	g/10 min	ASTM D1238
220°C/10.0 kg	26	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.40 - 0.80	%	ASTM D955
Transverse flow: 3.20mm	0.40 - 0.80	%	ASTM D955
Lateral flow: 3.20mm	0.60	%	ISO 2577
Traffic: 3.20mm	0.40	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	110		ASTM D785
R scale	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2300	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	41.0	MPa	ASTM D638
Yield	43.0	MPa	ISO 527-2/5
Fracture ³	43.0	MPa	ASTM D638
Fracture	47.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ⁴	25	%	ASTM D638
Fracture	25	%	ISO 527-2/5

Flexural Modulus			
-- 5	2100	MPa	ASTM D790
-- 6	2300	MPa	ISO 178
Flexural Strength			
-- 7	64.0	MPa	ASTM D790
-- 8	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	130	J/m	ASTM D256
23°C, 6.35 mm	130	J/m	ASTM D256
23°C ¹⁰	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	76.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	75.0	°C	ISO 75-2/A
	85.0		
Vicat Softening Temperature	86.0	°C	ISO 306/B50
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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