

Starex TX-0520HR

Methyl Methacrylate / ABS

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex TX-0520HR 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: electrical appliances. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E115797-102152204		
Uses	Electrical appliances		
Appearance	Clear/transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.08	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ASTM D1238, 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	0.40 - 0.80	%	ISO 2577
Traffic: 3.20mm	0.40 - 0.80	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	101		ASTM D785
R scale	101		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1960	MPa	ASTM D638
--	1900	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	39.2	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2/50
Fracture ³	36.3	MPa	ASTM D638
Fracture	35.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	25	%	ASTM D638
Fracture	25	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1860	MPa	ASTM D790
-- ⁶	2000	MPa	ISO 178
Flexural Strength			
-- ⁷	53.9	MPa	ASTM D790

-- 8	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	15	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	180	J/m	ASTM D256
23°C, 6.35 mm	160	J/m	ASTM D256
23°C ¹⁰	15	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	75.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	86.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (1.5 to 3.0mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Haze			
3200 μm	2.0	%	ASTM D1003
3200 μm	2.0	%	ISO 13468
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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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