

Starex PT-0170 M

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex PT-0170 M is an acrylonitrile butadiene styrene (ABS) product. It is available in North America, Europe or Asia Pacific. Typical application areas are: automotive industry.

General Information			
Features	General		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
200°C/5.0 kg	1.4	g/10 min	ASTM D1238, ISO 1133
220°C/10.0 kg	18	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.50 - 0.60	%	ASTM D955
Transverse flow: 3.20mm	0.50 - 0.70	%	ASTM D955
Lateral flow: 3.20mm	0.50 - 0.70	%	ISO 2577
Traffic: 3.20mm	0.50 - 0.60	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	111		ASTM D785
R scale	111		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2300	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	43.0	MPa	ASTM D638
Yield	39.0	MPa	ISO 527-2/50
Fracture ³	13.0	MPa	ASTM D638
Fracture	15.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	14	%	ASTM D638
Fracture	15	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2350	MPa	ISO 178
Flexural Strength			

-- ⁷	60.0	MPa	ASTM D790
-- ⁸	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹			ISO 179/1eA
-30°C	13	kJ/m ²	ISO 179/1eA
23°C	19	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C, 3.18 mm	88	J/m	ASTM D256
-30°C, 6.35 mm	79	J/m	ASTM D256
23°C, 3.18 mm	460	J/m	ASTM D256
23°C, 6.35 mm	280	J/m	ASTM D256
-30°C ¹⁰	8.0	kJ/m ²	ISO 180/1A
23°C ¹¹	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	95.0	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	94.0	°C	ISO 75-2/B
0.45 MPa, annealing, 4.00mm	103	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	88.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	80.0	°C	ISO 75-2/A
1.8 MPa, annealing, 4.00mm	100	°C	ISO 75-2/A
Vicat Softening Temperature			
--	97.0	°C	ISO 306/B50
--	101	°C	ISO 306/B120
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		
11.	Thickness: 4mm		

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