Starex TF-0959 T

Polymethyl Methacrylate Acrylic

SAMSUNG SDI CO., LTD.

Message:

Starex TF-0959 T is a Polymethyl Methacrylate Acrylic product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Characteristics include:
Flame Rated
Impact Resistant

General Information			
UL YellowCard	E115797-100025520		
Features	High Impact Resistance		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.17	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
--	0.30	g/10 min	
220°C/10.0 kg	15	g/10 min	
Molding Shrinkage - Flow			
--	0.30	%	ASTM D955
3.20 mm	0.30	%	ISO 2577
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	117		ASTM D785, ISO 2039-2
Pencil Hardness			JIS K5401
-- [1]	3H		
-- [2]	3H		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [3]	2500	MPa	ASTM D638
--	2500	MPa	ISO 527-2/50
Tensile Strength			
Yield [4]	55.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Break [5]	34.0	MPa	ASTM D638
Break	45.0	MPa	ISO 527-2/50
Tensile Elongation			
Break [6]	25	%	ASTM D638
Break	10	%	ISO 527-2/50
Flexural Modulus			
-- [7]	2300	MPa	ASTM D790
-- [8]	2500	MPa	ISO 178
Flexural Strength			

-- [9]	78.0	MPa	ASTM D790
-- [10]	90.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [11] (23°C)	2.0	kJ/m²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	20	J/m	ASTM D256
23°C, 6.35 mm	20	J/m	ASTM D256
23°C [12]	2.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact			ASTM D256
23°C, 3.18 mm	340	J/m	
23°C, 6.35 mm	290	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	84.0	°C	ISO 75-2/B
0.45 MPa, Annealed	94.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	77.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	72.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	85.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	93.0	°C	ISO 306/B50
--	95.0	°C	ISO 306/B120
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance	93.0	%	ASTM D1003
Haze (3200 µm)	3.0	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
--	90.0	°C	
Desiccant Dryer	90.0	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	230 to 240	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	250	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	49.0 to 245	MPa	

Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 150	rpm

NOTE	
1.	Condition: 1000g
2.	Condition: 500g
3.	5.0 mm/min
4.	5.0 mm/min
5.	5.0 mm/min
6.	5.0 mm/min
7.	2.8 mm/min
8.	2.0 mm/min
9.	2.8 mm/min
10.	2.0 mm/min
11.	Thickness: 4 mm
12.	Thickness: 4 mm

Recommended distributors for this material

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