

## Starex BF-0930

Unnotched Izod Impact Strength <sup>5</sup> (23°F)

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

Thursday, September 29, 2016

	General I	nformation		
General				
Material Status	Commercial: Active			
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America	
Features	General Purpose			
Uses	Appliances	Electrical/Electronic Applications		
	ASTM & ISC	O Properties <sup>1</sup>		
Physical		Nominal Value	Unit	Test Method
Specific Gravity (Natural)		1.13		ASTM D792
Density (Natural)		1.13	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)		33	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°	C/10.0 kg)	33	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in	n)	3.5E-3 to 4.3E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.126 in)		3.6E-3 to 4.5E-3	in/in	ASTM D955
Molding Shrinkage				ISO 2577
Across Flow: 0.126 in		0.36 to 0.45	%	
Flow : 0.126 in		0.35 to 0.43	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup>		377000	psi	ASTM D638
Tensile Modulus		421000	psi	ISO 527-2/50
Tensile Strength <sup>2</sup> (Yield)		8270	psi	ASTM D638
Tensile Stress (Yield)		10600	psi	ISO 527-2/50
Tensile Strength <sup>2</sup> (Break)		5950	psi	ASTM D638
Tensile Stress (Break)		10400	psi	ISO 527-2/50
Tensile Elongation <sup>2</sup> (Break)		19	%	ASTM D638
Tensile Strain (Break)		5.0	%	ISO 527-2/50
Flexural Modulus 3		377000	psi	ASTM D790
Flexural Modulus 4		435000	psi	ISO 178
Flexural Strength <sup>3</sup>		12600	psi	ASTM D790
Flexural Stress <sup>4</sup>		14500	psi	ISO 178
Impact		Nominal Value		Test Method
Charpy Notched Impact Strength <sup>5</sup>	(73°F)		ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strengt	· ,	12	ft·lb/in²	ISO 179/1eU
Notched Izod Impact	, ,			ASTM D256
73°F, 0.125 in		0.37	ft·lb/in	
73°F, 0.250 in		0.37	ft·lb/in	
Notched Izod Impact Strength <sup>5</sup> (73	3°F)	0.95	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact				ASTM D256
73°F, 0.125 in		4.7	ft·lb/in	
73°F, 0.250 in		43	ft·lb/in	

LEGAL DISCLAIMER: Before using a product sold by Osterman, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT. This product(s) may not be used in: (i) any U.S. FDA Class I, health Canada Class I, and/or European Union Class I medical devices, without prior notification to Seller for each specific product and application; or (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II Medical Devices; Health Canada Class II or Class III Medical Devices; European Union Class II Medical Devices; packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; and tobacco related products and applications. Additionally, the product(s) may not be used in: (i) U.S. FDA Class III Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) Iffe-sustaining medical applications; and (iv) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

12 ft·lb/in²

ISO 180/1U

## Starex BF-0930

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

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Rockwell Hardness (R-Scale)	121		ISO 2039-2
Pencil Hardness <sup>6</sup>	2H		JIS K5401
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, 0.252 in	192	°F	
Heat Deflection Temperature			ISO 75-2/B
66 psi, Unannealed, 0.157 in	189	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.252 in	174	°F	
Heat Deflection Temperature			ISO 75-2/A
264 psi, Unannealed, 0.157 in	169	°F	
Vicat Softening Temperature	201	°F	ISO 306/B50
P	rocessing Information		
Injection	Nominal Value	Unit	
Drying Temperature			
	176	°F	
Desiccant Dryer	176	°F	
Drying Time			
	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	374 to 392	°F	
Middle Temperature	410 to 428	°F	
Front Temperature	446 to 464	°F	
Nozzle Temperature	446	°F	
Mold Temperature	104 to 176	°F	
Injection Pressure	7110 to 35600	psi	
Back Pressure	71.1 to 284	psi	
Screw Speed	50 to 150	rpm	
Notes			
<sup>1</sup> Typical properties: these are not to be construed as specifi	cations.		
<sup>2</sup> 0.20 in/min			
<sup>3</sup> 0.11 in/min			
<sup>4</sup> 0.079 in/min			
<sup>5</sup> Thickness: 4mm			
6 500g			
ouug			