

**STAREX BF-0370**

MABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	15	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0045	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus, 23°C	2700	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy notched impact strength, +23°C	16	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 115	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Strength at Yield	44	MPa	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Flexural Strength	74	MPa	ASTM D 790
Rockwell Hardness	R 113	-	ASTM D 785
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact notched, 1/4 in	130	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	84	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	96	°C	ISO 75-1/-2
Vicat softening temperature, B	102	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1	mm	-
DTUL @ 264 psi	89	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1060	kg/m <sup>3</sup>	ISO 1183
Density	1060	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	230	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	190 - 200	°C	-
Zone 2	210 - 220	°C	-
Zone 3	230 - 240	°C	-

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Nozzle temperature	<b>230</b>	°C	-
Screw speed	<b>50 - 150</b>	rpm	-
Injection pressure	<b>49 - 250</b>	MPa	-
Back pressure	<b>0.5 - 2</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets, Natural Color