

TECHNICAL DATA SHEET

STAREX BF-0370

Lotte Chemical Corporation
MABS

Processing

Injection molding

Delivery Form

Pellets, Natural color

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	15	g/10min	ISO 1133
Temperature	220	°C	
Load	10	kg	
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	Standard
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
Poisson's ratio	0.35		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 ²	ISO 179/1eA
Izod notched impact strength, +23°C	11	kJ/m ²	ISO 180/1A
Rockwell hardness	R 115		ISO 2039-2
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

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Mechanical Properties	Value	Unit	Standard
Izod impact notched, 1/4 in	130	J/m	ASTM D 256
Thermal Properties			
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	mm	
UL 94 flame rating	HB		UL 94
Thickness tested	1	mm	
DTUL @ 264 psi	89	°C	ASTM D 648
Other Properties			
Density	1060	kg/m ³	ISO 1183
Density	1060	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
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	
Nozzle temperature	230	°C	
Screw speed	50 - 150	rpm	
Injection pressure	49 - 250	MPa	
Back pressure	0.5 - 2	MPa	