

STAREX SF-0505H

MABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	16.5	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
ASTM Data			
Melt Flow Index, MFI	16.5	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
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	5.6	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	81	MPa	ISO 178
Charpy notched impact strength, +23°C	5.3	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	4.5	kJ/m ²	ISO 180/1A
Rockwell hardness	R 113	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2400	MPa	ASTM D 638
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	39	MPa	ASTM D 638
Elongation at Break	11	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Flexural Strength	71	MPa	ASTM D 790
Rockwell Hardness	R 113	-	ASTM D 785
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	73	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	84	°C	ISO 75-1/-2
Vicat softening temperature, B	94	°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	3.0	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	92	°C	ASTM D 648
DTUL @ 264 psi	84	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1110	kg/m ³	ISO 1183
Density	1110	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	85	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	190 - 200	°C	-

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Zone 2	210 - 220	°C	-
Zone 3	230 - 240	°C	-
Nozzle temperature	240	°C	-
Screw speed	50 - 150	rpm	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Applications

Electrical and Electronical

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific