

STAREX TX-0520HR

MABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	10	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1900	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Stress at break	35	MPa	ISO 527
Strain at break	25	%	ISO 527
Flexural modulus, 23°C	2000	MPa	ISO 178
Flexural strength	45	MPa	ISO 178
Charpy notched impact strength, +23°C	15	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	15	kJ/m ²	ISO 180/1A
Rockwell hardness	R 101	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	39	MPa	ASTM D 638
Tensile Strength at Break	36	MPa	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	1900	MPa	ASTM D 790
Flexural Strength	54	MPa	ASTM D 790
Rockwell Hardness	R 101	-	ASTM D 785
Izod Impact notched, 1/8 in	160	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	75	°C	ISO 75-1/-2
Vicat softening temperature, B	86	°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 @ 264 psi	75	°C	ASTM D 648

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	2	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	1080	kg/m ³	ISO 1183
Density	1080	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2	h	-
Processing humidity	≤0.05	%	-

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Melt temperature	230	°C	-
Mold temperature	40 - 60	°C	-
Zone 1	200 - 215	°C	-
Zone 2	215	°C	-
Zone 3	215 - 230	°C	-
Nozzle temperature	230	°C	-

Characteristics**Processing**

Other Extrusion

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets, Natural Color