

STAREX PT-0170 M

ABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	18	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	1.4	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	39	MPa	ISO 527
Stress at break	15	MPa	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	2350	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Charpy notched impact strength, +23°C	19	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	13	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	18	kJ/m ²	ISO 180/1A
Izod notched impact strength	8	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Rockwell hardness	R 111	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2300	MPa	ASTM D 638
Tensile Strength at Yield	43	MPa	ASTM D 638
Tensile Strength at Break	13	MPa	ASTM D 638
Elongation at Break	14	%	ASTM D 638
Flexural Modulus	2000	MPa	ASTM D 790
Flexural Strength	60	MPa	ASTM D 790
Rockwell Hardness	R 111	-	ASTM D 785
Izod Impact notched, 1/8 in	460	J/m	ASTM D 256
Izod Impact notched, 1/4 in	280	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	88	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	80	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	94	°C	ISO 75-1/-2
Vicat softening temperature, B	97	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	95	°C	ASTM D 648
DTUL @ 264 psi	88	°C	ASTM D 648
Other properties			
Density	1050	kg/m ³	ISO 1183
Density	1050	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	%	-

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Melt temperature	230	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	160 - 180	°C	-
Zone 2	190 - 200	°C	-
Zone 3	210 - 220	°C	-
Nozzle temperature	230	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	49 - 150	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific