

STAREX GC-0730

(ABS+PET)

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.007	mm/mm	ASTM D 955
Mechanical properties			
ISO Data	Value	Unit	Test Standard
Tensile Modulus	1750	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Stress at break	30	MPa	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus, 23°C	1700	MPa	ISO 178
Flexural strength	55	MPa	ISO 178
Izod notched impact strength, +23°C	35	kJ/m ²	ISO 180/1A
Rockwell hardness	R 91	-	ISO 2039-2
ASTM Data			
Tensile Modulus	1700	MPa	ASTM D 638
Tensile Strength at Yield	39	MPa	ASTM D 638
Tensile Strength at Break	29	MPa	ASTM D 638
Elongation at Break	13	%	ASTM D 638
Flexural Modulus	1700	MPa	ASTM D 790
Flexural Strength	54	MPa	ASTM D 790
Rockwell Hardness	R 91	-	ASTM D 785
Izod Impact notched, 1/8 in	560	J/m	ASTM D 256
Izod Impact notched, 1/4 in	120	J/m	ASTM D 256
Thermal properties			
ISO Data	Value	Unit	Test Standard
Temp. of deflection under load, 1.80 MPa	70	°C	ISO 75-1/-2
Vicat softening temperature, B	91	°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	74	°C	ASTM D 648
Other properties			
Value	Unit	Test Standard	
Density	1120	kg/m ³	ISO 1183
Density	1120	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	250	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	210	°C	-
Zone 2	220 - 230	°C	-
Zone 3	240 - 250	°C	-
Nozzle temperature	250	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	49 - 250	MPa	-

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Back pressure

0.5 - 2

MPa

-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets, Natural Color