

STAREX SP-0180

ABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	6	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
ASTM Data			
Melt Flow Index, MFI	6	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Stress at break	32	MPa	ISO 527
Strain at break	13	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	65	MPa	ISO 178
Charpy notched impact strength, +23°C	38	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	36	kJ/m ²	ISO 180/1A
Rockwell hardness	R 101	-	ISO 2039-2
ASTM Data			
Tensile Strength at Yield	36	MPa	ASTM D 638
Flexural Modulus	1900	MPa	ASTM D 790
Flexural Strength	54	MPa	ASTM D 790
Rockwell Hardness	R 98	-	ASTM D 785
Izod Impact notched, 1/4 in	370	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	77	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	92	°C	ISO 75-1/-2
Vicat softening temperature, B	97	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	91	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1040	kg/m ³	ISO 1183
Density	1040	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Type of extrusion	pipe/tube	-	-
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	160 - 180	°C	-
Zone 2	190 - 200	°C	-
Zone 3	210 - 220	°C	-
Zone 5	230	°C	-

Characteristics**Processing**

Injection Molding, Pipe/Tube Extrusion

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets, Natural Color