

Starex WR-9120 J			
ASA			
Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	26	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0055	mm/mm	ASTM D 955
Density	1070	kg/m ³	ASTM D 792
Rheological properties			
ISO Data			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
Melt flow index, MFI	26	g/10min	ISO 1133
MFI temperature	220	°C	-
MFI load	10	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	43	MPa	ISO 527
Stress at break	34	MPa	ISO 527
Strain at break	15	%	ISO 527
Charpy notched impact strength, +23°C	14	kJ/m ²	ISO 179/1eA
Flexural modulus, 23°C	2260	MPa	ISO 178
Flexural strength	72	MPa	ISO 178
Izod Impact notched, 23°C	9	kJ/m ²	ISO 180/1A
Rockwell hardness	R 105	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	44	MPa	ASTM D 638
Tensile Strength at Break	39	MPa	ASTM D 638
Elongation at Break	85	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Flexural Strength	64	MPa	ASTM D 790
Rockwell Hardness	R 105	-	ASTM D 785
Izod Impact notched, 1/8 in	210	J/m	ASTM D 256
Izod Impact notched, 1/4 in	88	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	77	°C	ISO 75-1-2
Temp. of deflection under load, 0.45 MPa	91	°C	ISO 75-1-2
Vicat softening temperature, 50°C/h 50N	98	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	87	°C	ASTM D 648
Other properties			
ISO Data			
Density	1070	kg/m ³	ISO 1183

Starex WR-9120 J

ASA

Lotte Chemical Corporation

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	75 - 85	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	220 - 250	°C	-
Mold temperature	50 - 70	°C	-
Zone 1	180 - 200	°C	-
Zone 2	200 - 220	°C	-
Zone 3	210 - 230	°C	-
Nozzle temperature	230 - 230	°C	-
Screw speed	50 - 90	rpm	-
Injection pressure	98 - 98	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Applications

Automotive

Delivery form

Pellets, Natural Color