

ABS XR440

ABS

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	6	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	48.1	MPa	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	2649	MPa	ASTM D 790
Flexural Strength	78.5	MPa	ASTM D 790
Rockwell Hardness	R 113	-	ASTM D 785
Izod Impact notched, 1/8 in	94.3	J/m	ASTM D 256
Izod Impact notched, 1/4 in	94.3	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	56.6	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	110	°C	ASTM D 648
DTUL @ 264 psi	101	°C	ASTM D 648
Vicat Temperature	110	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1060	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	230 - 250	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	180 - 220	°C	-
Zone 2	220 - 240	°C	-
Zone 3	230 - 250	°C	-
Nozzle temperature	240 - 250	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	2 - 4	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Features

Low Emission

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific, South and Central America