

ABS HI100

ABS

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	12	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 Modulus	1609	MPa	ASTM D 638
Tensile Strength at Yield	37.3	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	1815	MPa	ASTM D 790
Flexural Strength	58.9	MPa	ASTM D 790
Rockwell Hardness	R 92	-	ASTM D 785
Izod Impact notched, 1/8 in	424	J/m	ASTM D 256
Izod Impact notched, 1/4 in	405	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	264	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
DTUL @ 66 psi	87	°C	ASTM D 648
DTUL @ 264 psi	84	°C	ASTM D 648
Vicat Temperature	90	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	600	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	1020	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	210 - 240	°C	-
Mold temperature	40 - 70	°C	-
Zone 1	180 - 200	°C	-
Zone 2	190 - 210	°C	-
Zone 3	200 - 220	°C	-
Nozzle temperature	200 - 230	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	30 - 60	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

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

Special Characteristics

High impact or impact modified