

**ABS LG749W**

ABS

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	6.5	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
<b>ASTM Data</b>			
Tensile Strength at Yield	46.1	MPa	ASTM D 638
Elongation at Break	20	%	ASTM D 638
Flexural Modulus	2403	MPa	ASTM D 790
Flexural Strength	77.5	MPa	ASTM D 790
Rockwell Hardness	R 107	-	ASTM D 785
Izod Impact notched, 1/8 in	189	J/m	ASTM D 256
Izod Impact notched, 1/4 in	170	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	94.3	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
DTUL @ 66 psi	103	°C	ASTM D 648
DTUL @ 264 psi	95	°C	ASTM D 648
Vicat Temperature	101	°C	ASTM D 1525

Optical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Gloss	30	-	ASTM D 2457

Other properties	Value	Unit	Test Standard
Density	1040	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 80	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	220 - 240	°C	-
Mold temperature	40 - 60	°C	-
Zone 1	200 - 220	°C	-
Zone 2	210 - 230	°C	-
Zone 3	220 - 240	°C	-
Nozzle temperature	220 - 240	°C	-
Screw speed	<80	rpm	-
Back pressure	70 - 90	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Applications**

Automotive

**Regional Availability**

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