

**ABS XR409E**

ABS

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	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	47.1	MPa	ASTM D 638
Elongation at Break	20	%	ASTM D 638
Flexural Modulus	2551	MPa	ASTM D 790
Flexural Strength	78.5	MPa	ASTM D 790
Rockwell Hardness	R 111	-	ASTM D 785
Izod Impact notched, 1/8 in	141	J/m	ASTM D 256
Izod Impact notched, 1/4 in	132	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	66	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
DTUL @ 66 psi	112	°C	ASTM D 648
DTUL @ 264 psi	104	°C	ASTM D 648
Vicat Temperature	114	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Comparative tracking index	600	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	33	kV/mm	ASTM D 149
Volume Resistivity	1500	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1070	kg/m <sup>3</sup>	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

**Applications**

Automotive

**Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

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