

LG ABS ER461

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

LG ABS ER461 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

The main features of LG ABS ER461 are:

- flame retardant/rated flame
- Heat resistance

Typical application areas include:

- Automotive Industry
- House

General Information			
UL YellowCard	E67171-248359		
Features	Heat resistance, high		
Uses	Car interior parts		
	Automotive exterior parts		
	Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Dimensional Stability	0.0	%	ASTM D1042
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	48.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	25	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2550	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	77.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	120	J/m	ASTM D256
-30°C, 6.40 mm	98	J/m	ASTM D256
23°C, 3.20 mm	270	J/m	ASTM D256
23°C, 6.40 mm	250	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	99.0	°C	ASTM D648

1.8 MPa, unannealed, 6.40mm	91.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°C	ASTM D1525
RTI Elec			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		UL 746
3.00 mm	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm, ALL	HB		UL 94
3.00 mm, ALL	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	180 - 210	°C	
Middle Temperature	210 - 230	°C	
Front Temperature	230 - 240	°C	
Nozzle Temperature	230 - 240	°C	
Processing (Melt) Temp	220 - 240	°C	
Mold Temperature	40.0 - 60.0	°C	
Back Pressure	29.4 - 58.8	MPa	
Screw Speed	50 - 100	rpm	
Injection instructions			
Minimum Moisture Content: 0.01%			
NOTE			
1.	50 mm/min		

2.	50 mm/min
3.	15 mm/min
4.	15 mm/min

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