

LG ABS ER400

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Saturday, July 20, 2019

General Information

Product Description

Description

- High Heat, High Impact

Applications

- Automotives Interior & Exterior Housing

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Latin America • North America
Features	<ul style="list-style-type: none"> • High Heat Resistance • High Impact Resistance
Uses	<ul style="list-style-type: none"> • Automotive Applications • Automotive Exterior Parts • Automotive Interior Parts • Housings
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.80	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2440	MPa	ISO 527-2/1
Tensile Stress (Yield)	52.0	MPa	ISO 527-2/50
Flexural Modulus ²	2400	MPa	ISO 178
Flexural Stress ²	79.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	21	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	8.0	kJ/m ²	
23°C	21	kJ/m ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	112		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			ISO 75-2/Ae
1.8 MPa, Unannealed, 4.00 mm	85.0	°C	
Vicat Softening Temperature	101	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.070	%
Rear Temperature	180 to 210	°C
Middle Temperature	210 to 230	°C
Front Temperature	230 to 240	°C
Nozzle Temperature	230 to 240	°C
Processing (Melt) Temp	230 to 260	°C
Mold Temperature	40 to 60	°C
Back Pressure	0.981 to 2.94	MPa

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

³ 120*10*4mm