

LG ABS XR404T

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

- Description
- Heat Resistance
- Application
 - Electric & Electronic Housing
 - Automotives Exterior Housing (Rear Lamp Housing)

General Information			
UL YellowCard	E67171-248413	E67171-317061	
Features	High Heat Resistance		
Uses	Automotive Exterior Parts		
	Electrical Parts		
	Housings		
	Lighting Fixtures		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
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)	49.0	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20 mm	> 5.0	%	
Break, 3.20 mm	15	%	
Flexural Modulus ³ (6.40 mm)	2600	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	79.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	69	J/m	
-30°C, 6.40 mm	78	J/m	
23°C, 3.20 mm	150	J/m	
23°C, 6.40 mm	160	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	108	°C	
1.8 MPa, Unannealed	100	°C	
Vicat Softening Temperature	107	°C	ASTM D1525 ⁵
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	< 0.010	%	
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	220 to 240	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	50 to 100	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	15 mm/min		
5.	Rate A (50°C/h), Loading 2 (50 N)		

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