LG ABS XR401F

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description
Heat Resistance
Application
Electric & Electronic Housing (MWO Door Frame)

General Information			
UL YellowCard	E67171-248410		
Features	High Heat Resistance		
Uses	Electrical/Electronic Applications		
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)	9.0	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)	110		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.20 mm)	51.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	20	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	2550	MPa	ASTM D790
Flexural Strength [4] (Yield, 3.20 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	59	J/m	
23°C, 3.20 mm	190	J/m	
23°C, 6.40 mm	170	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	105	°C	
1.8 MPa, Unannealed, 6.40 mm	97.0	°C	
Vicat Softening Temperature	106	°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
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.5E+3	ohms·cm	ASTM D257
Dielectric Strength (1.00 mm)	33	kV/mm	ASTM D149
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI) [6]	PLC 0		UL 746
Flammability	Nominal Value	Unit	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	< 0.070	%	
Rear Temperature	180 to 200	°C	
Middle Temperature	200 to 220	°C	
Front Temperature	220 to 230	°C	
Nozzle Temperature	220 to 230	°C	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	0.981 to 2.94	MPa	
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)		
6.	Solution A		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China