

KumhoSunny ABS ER872

Acrylonitrile Butadiene Styrene
Shanghai KumhoSunny Plastics Co., Ltd.

Message:
ER872 is extrusion grade ABS resin. ER872 is ESCR and has high impact. ER872 is mainly used in refrigerator interior containers, door cap,etc.

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Appliance Components		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	44.0	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	550	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	87.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value		
CSA File No.	LS 66457		

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	190 to 200	°C
Middle Temperature	210 to 220	°C
Front Temperature	220 to 230	°C
Nozzle Temperature	215 to 225	°C
Processing (Melt) Temp	200 to 230	°C
Mold Temperature	50.0 to 80.0	°C
Back Pressure	1.00 to 5.00	MPa
Screw Speed	30 to 60	rpm

NOTE

1. Rate B (120°C/h)

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