

ISOPAK® 547

Acrylonitrile Butadiene Styrene

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOPAK® 547 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific, Europe, or North America.

Important attributes of ISOPAK® 547 are:

Flame Rated

Impact Resistant

Typical applications include:

Appliances

Consumer Goods

Electrical/Electronic Applications

Household Applications

Housings

General Information			
UL YellowCard	E85466-251743		
Features	General Purpose		
	High Impact Resistance		
Uses	Bathroom Accessories		
	Computer Components		
	General Purpose		
	Television Housings		
	Toys		
	White Goods & Small Appliances		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.50 to 1.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, 3.18 mm)	47.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	28	%	ASTM D638
Flexural Modulus ¹ (23°C)	2350	MPa	ASTM D790
Flexural Strength ² (Yield, 23°C)	73.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	260	J/m	ASTM D256A
Notched Izod Impact (Area) ⁴ (23°C)	27.5	kJ/m ²	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	89.0	°C	ASTM D648
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
High Amp Arc Ignition (HAI) (1.57 mm)	200		UL 746
High Voltage Arc Tracking Rate (HVTR) (1.57 mm)	0.00	mm/min	UL 746
Hot-wire Ignition (HWI) (1.57 mm)	16	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
NOTE			
1.	2.8 mm/min		
2.	2.8 mm/min		
3.	1/8x1/2x5/2 in		
4.	1/4" x 1/2" x 5/2" sample		

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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

