

ISOPAK® 525

Acrylonitrile Butadiene Styrene
Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOPAK® 525 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of ISOPAK® 525: Flame Rated.
Typical applications include:
Appliances
Consumer Goods
Electrical/Electronic Applications

General Information			
Features	General Purpose		
Uses	Computer Components		
	General Purpose		
	Toys		
	White Goods & Small Appliances		
Processing Method	Injection Molding		
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)	1.0 to 2.0	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)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, 3.18 mm)	50.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	25	%	ASTM D638
Flexural Modulus ¹ (23°C)	2550	MPa	ASTM D790
Flexural Strength ² (Yield, 23°C)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) ³ (23°C)	21.6	kJ/m ²	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.0	°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)	17	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.	1/4" x 1/2" x 5/2" sample		

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