

Product Data Sheet

Updated : July 2000 Supersedes : July 1998

Product Description

SP-4533 is a water-dispersed pressure sensitive adhesive, which has been specifically formulated to be screen printable. This product exhibits a good combination of peel, shear and environmental ageing properties.

Physical Properties Not for specification purposes

Solids	65 %
Colour	Milky White
Carrier	Water
Specific Gravity	1.05
Viscosity	28,000 - 40,000 CPS
рН	7.0
Shelf Life	Store in original container. Temperature not to exceed 40°C. Keep from freezing. Shelf life is 12 months when temperature is kept between 5-35°C.

Features/Advantages

Screen Printable

- Low waste
- Print Complicated Patterns
- More Versatile Product Designs
- High Heat Resistance
- Higher Product Quality

Applications

Cell Phones

• Home Appliances

• Graphic Applications

Audio Equipment

CharacteristicsNot for specification purposes

Peel Force

 180° Peel test, 100 micron PET Film, conditioned $50^{\circ}\text{C}/24$ hours, 35 micron adhesive thickness.

Substrate	N/10mm	
Stainless Steel	11.2	
ABS	5.1	
PVC	9.3	
Polycarbonate	9.3	

Environmental Resistance 180° Peel test, PET 100 micron ABS, 35 micron adhesive thickness.		
Condition	N/10mm	
Initial (25°C)	5.1	
80°C / 100 hours	9.7	
60°C / 95% RH / 1000 hours	5.8	
40°C / 1000 hours water immersion	9.3	

Heat Resistance PET 100 micron to Stainless Steel, 35 micron adhesive thickness.		
Temperature	N/10mm	
90°C	3.9	

Dead Load Test	
Load	Temperature
1 kg	77°C
0.5 kg	130°C

Application Suggestions

Use directly without dilution. Agitate well before using. Do not add additives such as defoamers. Keep container tightly capped during storage. Avoid returning used adhesive to container. Select the

screen mesh based on required adhesive coating thickness and printing precision. Stainless steal, polyester and nylon wire in the range of #70 to #150 can be used for screen mesh materials. Waster resistant materials such as acrylics or diazos should be used for mesh masking materials

Date: July 2000

Screen-Printable Adhesive

SP-4533

Precautionary Information

Refer to product Label and Material \Safety Data Sheet for Health & Safety Information before using this product.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications.

This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



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