TECHNICAL DATA SHEET

Doc No – Ab/TDS/ GLP-170
Rev No: 00 Date- 05/2024-25

Abdos Labtech Pvt. Ltd.
Safe Bottle Carrier, TPE

Valid for Cat. No. P90120, P90121, P90122, P90123, P90124, P90125, P90126, P90127, P90128, P90129, P90130, P90131

SRN (Single Registration Number): IN-MF-000022272

1. Description/Specification:

1.1 Description: Safe Bottle Carrier, TPE

1.1.1 Ergonomic handle prevents hand fatigue and related accidents when carrying heavier loads

1.1.2 Handle swings down and away to either side for easier loading and unloading

1.1.3 Centering ring stabilizes bottle in the centre of carrier for safer, steadier transport

1.1.4 Carriers come in four colours with designated labelling areas for easy identification

1.1.5 Made of chemical resistant thermoplastic elastomer - PP blend

1.1.6 Capacity Options: Available in 1.5 and 4.5 liters.

1.2 Design: Bottle Carrier

1.3 Performance Specifications:

Code	Description	Capacity (L)	Dia x H (inch)	No. Per Case
P90120	Safe Bottle Carrier Red	4.5L	7.2 x 10.5	1
P90121	Safe Bottle Carrier Red	1.5L	4.5 x 6.5	1
P90122	Safe Bottle Carrier Black	4.5L	7.2 x 10.5	1
P90123	Safe Bottle Carrier Black	1.5L	4.5 x 6.5	1
P90124	Safe Bottle Carrier Blue	4.5L	7.2 x 10.5	1

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P90125	Safe Bottle Carrier Blue	1.5L	4.5 x 6.5	1
P90126	Safe Bottle Carrier Green	4.5L	7.2 x 10.5	1
P90127	Safe Bottle Carrier Green	1.5L	4.5 x 6.5	1
P90128	Safe Bottle Carrier Red	4.5L & 1.5L	7.2 x 10.5/4.5x6.5	2
P90129	Safe Bottle Carrier Black	4.5L & 1.5L	7.2 x 10.5/4.5x6.5	2
P90130	Safe Bottle Carrier Green	4.5L & 1.5L	7.2 x 10.5/4.5x6.5	2
P90131	Safe Bottle Carrier Blue	4.5L & 1.5L	7.2 x 10.5/4.5x6.5	2

1.4 Material:

1.4.1 Thermoplastic Elastomer (TPE), These blends combine the rigid, lightweight, and heat-resistant characteristics of polypropylene with the elastic and impact-resistant qualities of Kraton.

1.4.2 **Thermal Properties**:

- The blend will typically retain PP's high-temperature resistance but may show slightly reduced crystallinity, leading to lower melting and softening points.
- Improved performance in low-temperature environments due to Kraton's elasticity.

2. **Impact Resistance**:
   - Enhanced impact resistance, especially at low temperatures, as Kraton acts as an elastomeric phase in the blend.

3. **Chemical Resistance**:
    - Maintains good resistance to non-polar solvents and weak acids and bases, though resistance to strong oxidizing agents might be slightly reduced due to Kraton.
4. **Elasticity and Toughness**:
    - Increased elasticity and toughness compared to pure PP, making the material more suitable for applications requiring flexibility and durability.
5. **Moisture and Weather Resistance**:
    - Still hydrophobic, with enhanced resistance to UV degradation if SEBS-type Kraton is used.
6. **Compatibility**:
    - Good compatibility due to the non-polar nature of both PP and Kraton. However, achieving a uniform blend often requires the use of compatibilizers or specific processing techniques.

1.4.3 Product is manufactured without the use of Raw Materials of animal origin. Therefore BSE/TSE issue does not concern this product to the best of our Knowledge.

1.5 Color: Red, Black, Green, Blue

1.6 Sterilization: NA

1.7 Quality control:

Products are manufactured, inspected and found to be in compliance with product & quality specification requirements as documented in ISO 9001:2015 & 13485:2016 Quality Management System. Testing of various characteristics in accordance with the valid specification, inspection reviewed & signed for product release.

1.8 Other information : Reusable

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1.9. Basic Features

1.9.1 Temperature range: -20 to +121^{0}C

1.9.2 Autoclavability: Yes, Autoclavable at 15 psi and 121^{0}C for 20 minutes

1.9.3 Chemical resistance: See website (www.abdoslifesciences.com)

1.9.4 Manufactured in Aseptic Environment

1.9.5 Ergonomic Design: The handle is designed to minimize hand fatigue, even with heavier loads.

1.9.6 Intended use: Widely used in scientific studies of molecular biology, clinical chemistry, biochemistry and any type of scientific laboratory.

Autoclaving Guideline for Plastics

All plastic consumables are autoclavable at 121^{0}C for 20 minutes, 15 psi/1atm. Do not use a dry cycle as this may cause deformation or weakening of the plastic. Allow temperature within the autoclave to return to at least 50^{0}C before removing product.

Instruction for Use

Product can be used for food contact also.
Storage temp. Max 30℃
Before using the product check crackness etc.
Check all the information printed on pouches or boxes.
Always wear gloves while handling specimens.

WARNING

DO NOT store strong oxidizing agents.
DO NOT place any plastic labware in a flame.
DO NOT mix any chemicals that may result in a thermic reaction, which can cause product failure
Consult local fire codes prior to storage of flammable liquids.

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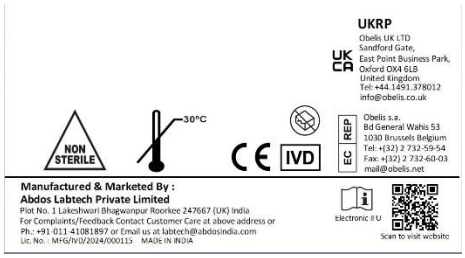

Quality Manager
Abdos Labtech Private Limited
Employee Code 30110

ABDOS LABTECH PVT. LTD. QUALITY DEPT. ROORKEE, INDIA

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