



TECHNICAL DATA SHEET

Omark Lifesciences Pvt. Ltd.

Plastic Test Tube for Cat. No. : OMK-T1275

Specification

1.1 Description: Plastic Test Tube 12X75 mm are DNase, RNase and Pyrogen Free

1.2 Design: (Vial)Cylindrical with Round Bottom

1.3 Performance Specifications:

These tubes are Clear , Transparent and Rimless.

Application : Used in the laboratories like molecular biology, microbiology, biochemistry ,cell biology and various other laboratories.

| Code | Ø x h (mm) | Material | No. Per Case |
|-----------|------------|----------|--------------|
| OMK-T1275 | 12x75 | PS | 500 |

1.4. Performance Specifications:

1.4.0. Temperature range: 10 Deg C + 90 Deg C for PS

1.4.1. Complies with requirement accordance with article of regulation (EC) No. 1907/2006 and its amendments.

1.4.2. Complies with the requirement of European Pharmacopoeia, 7th edition (2011) & its supplements 7.5 (07/2012) monographs 3.2.2 Plastic Containers and closures for Pharmaceutical use.

1.4.3. The product has passed the USP testing including class VI tests & has been assigned the FDA Drug master file DMF 12123

1.4.4. Materials has successful passed the biological tests according to ISO 10993 external communication devices for indirect blood contact for Prolonged period.

1.4.5. Free from heavy metals according to ELV Direction 2000/53/EC, EU CONEG & it's following amendments. It is safe use in contact with food stuff, Pharmaceuticals & drinking water.

1.4.6. PS- Material is stable and inert in normal handling & storage conditions.



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FACTORY: Plot Number 123, Toy City Ecotech-III Greater Noida, GB Nagar, Uttar Pradesh-201306 ,India



1.5 Colour: PS- Glass Clear Transparent

1.6 Quality Control: DNase, RNase, and Pyrogen Free Testing of various characteristics in accordance with the valid Specification

1.7 Physical Property

| Resin | Max Use Temp °C | Brittleness Temp °C | Transparency | Sterilization | | | | | Specific Gravity | Flexibility | Water Absorption % |
|-------|-----------------|---------------------|--------------|---------------|-----|----------|-----------|--------------|------------------|-------------|--------------------|
| | | | | Autoclaving | Gas | Dry Heat | Radiation | Disinfectant | | | |
| HDPE | 120 | -100 | Translucent | No | Yes | No | Yes | Yes | 0.95 | Rigid | < 0.01 |
| LDPE | 80 | -100 | Translucent | No | Yes | No | Yes | Yes | 0.92 | Excel | < 0.01 |
| PC | 135 | -135 | Clear | Yes+ | Yes | No | No | Yes | 1.20 | Rigid | 0.35 |
| PMMA | 50 | 20 | Clear | No | Yes | No | Yes | Some | 1.20 | Rigid | 0.30 |
| PP | 135 | 0 | Translucent | Yes | Yes | No | No | Yes | 0.90 | Rigid | < 0.02 |
| PS | 90 | 20 | Clear | No | Yes | No | Yes | Some | 1.05 | Rigid | 0.05 |
| PSF | 165 | -10 | Clear | Yes | Yes | Yes+ | Yes | Yes | 1.24 | Rigid | 0.30 |
| PTFE | 270 | -200 | Opaque | Yes | Yes | Yes | No | Yes | 2.17 | Excel | < 0.01 |
| PVDF | 110 | -62 | Translucent | Yes | Yes | No | No | Yes | 1.75 | Rigid | 0.05 |
| TPX* | 175 | 20 | Clear | Yes | Yes | Yes+ | No | Yes | 0.83 | Rigid | < 0.01 |

Centrifugation: PS – 1400 RCF (With Distilled water at 250C)

Leak Test at 350 mm Hg: No leakage

1.8. Chemical Resistance



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| Class of Substance at Room Temperature | HDPE | LDPE | PC | PMMA | PP | PS | PSF | PTFE | PVDF | TPX* |
|--|------|------|----|------|----|----|-----|------|------|------|
| Acids, Dilute or Weak | E | E | E | G | E | E | E | E | E | E |
| Acids, Strong and Concentrated | E | E | N | N | E | F | G | E | E | E |
| Alcohols, Aliphatic | E | E | G | N | E | E | G | E | E | E |
| Aldehydes | G | G | F | G | G | N | F | E | E | G |
| Bases | E | E | N | F | E | E | E | E | E | E |
| Esters | G | G | N | N | G | N | N | E | G | G |
| Hydrocarbons, Aliphatic | G | F | F | G | G | N | G | E | E | F |
| Hydrocarbons, Aromatic | G | F | N | N | F | N | N | E | E | F |
| Hydrocarbons, Halogenated | F | N | N | N | F | N | N | E | N | N |
| Ketones | G | G | N | N | G | N | N | E | N | F |
| Oxidizing Agents, Strong | F | F | N | N | F | N | G | E | G | F |

Resin Code

HDPE High-density polyethylene
 LDPE Low-density polyethylene
 PC Polycarbonate
 PMMA Polymethyl methacrylate
 PP Polypropylene
 PS Polystyrene
 PSF Polysulfone
 PTFE Polytetrafluoroethylene
 PVDF Polyvinylidene fluoride
 TPX* Polymethylpentene

Chemical Resistance Classification

■ E = Excellent - 30 days of constant exposure cause no damage. Plastics may even tolerate for years.
■ G = Good - Little or no damage after 30 days of constant exposure to the reagent.
■ F = Fair - Some effect after 7 days of constant exposure to the reagent like crazing, cacking, loss of strength or discoloration.
■ N = Not Recommended - Not for continuous use, Immediate damage may occur.

*TPX is the registered Trade Mark of Mitsui & Company Limited



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