

**Department of Physics, University of Kerala,
Thiruvananthapuram, Kerala, India – 695581, Ph: 91 471 2308920**

Dated 25/11/2020

Quotation Notice

Department of Physics, University of Kerala, invites tenders for the purchase of two Die set arrangements for annular dies with dimensions suitable for 45 MHz to 18 GHz (***Inner diameter – 3.04 mm, Outer diameter –7 mm***) and 45 MHz to 50 GHz (***Inner diameter – 1.0423 mm, Outer diameter – 2.4 mm***) coaxial airline measurements and one suitable to prepare dumbbell shaped materials for the tensile strength measurement. The specifications of the dies are as follows

TECHNICAL SPECIFICATIONS

1. Die set arrangements for annular dies

- ✓ Die set arrangements for annular dies with dimensions suitable for 45 MHz to 18 GHz coaxial airline: **Inner diameter – 3.04 mm, Outer diameter –7 mm**. The design of the Die set arrangement is shown in Figure 1.
- ✓ Die set arrangements for annular dies with dimensions suitable for 45 MHz to 50 GHz coaxial airline: **Inner diameter – 1.0423 mm, Outer diameter – 2.4 mm**. The design of the Die set arrangement is shown in Figure 2.
- ✓ Both die set arrangement should have a provision to mould sample up to a temperature of 100 °C or above.
- ✓ Should be capable to mould polymer materials into desired dimensions.

- ✓ Die material should have proper coating to resist corrosion and contamination.

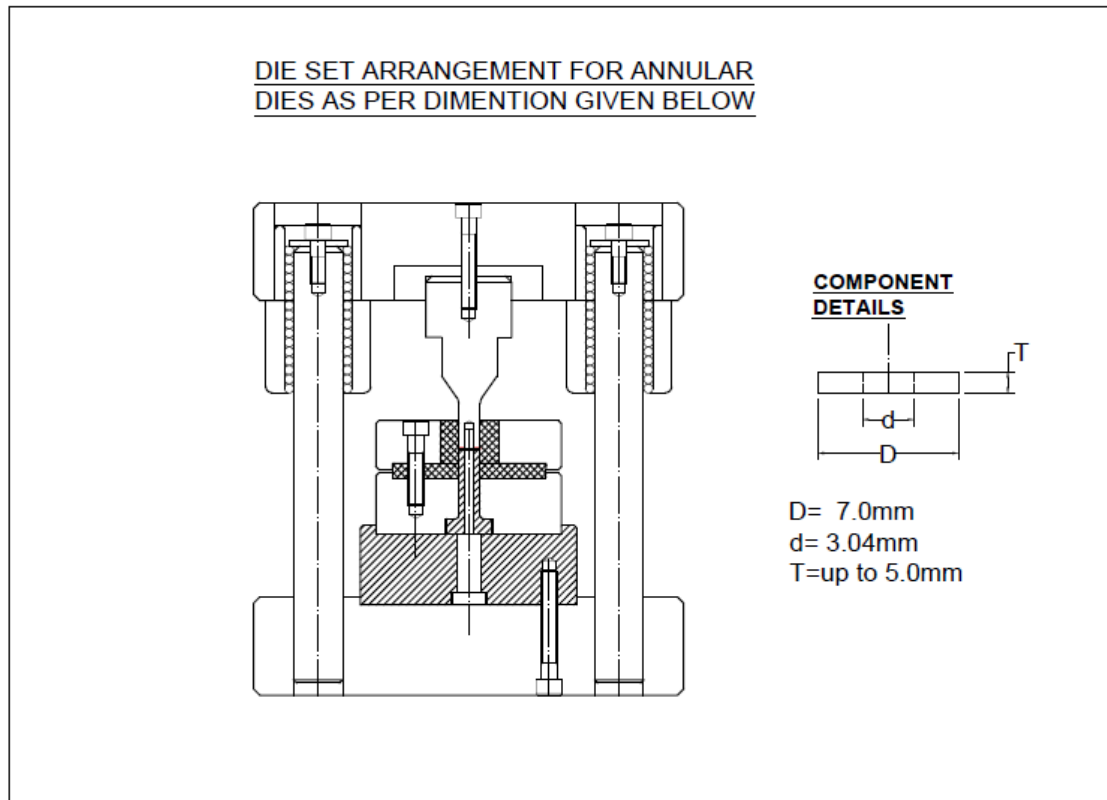


Figure 1. design of the die set arrangements for annular dies with dimensions suitable for 45 MHz to 18 GHz coaxial airline (Inner diameter – 3.04 mm, Outer diameter –7 mm).

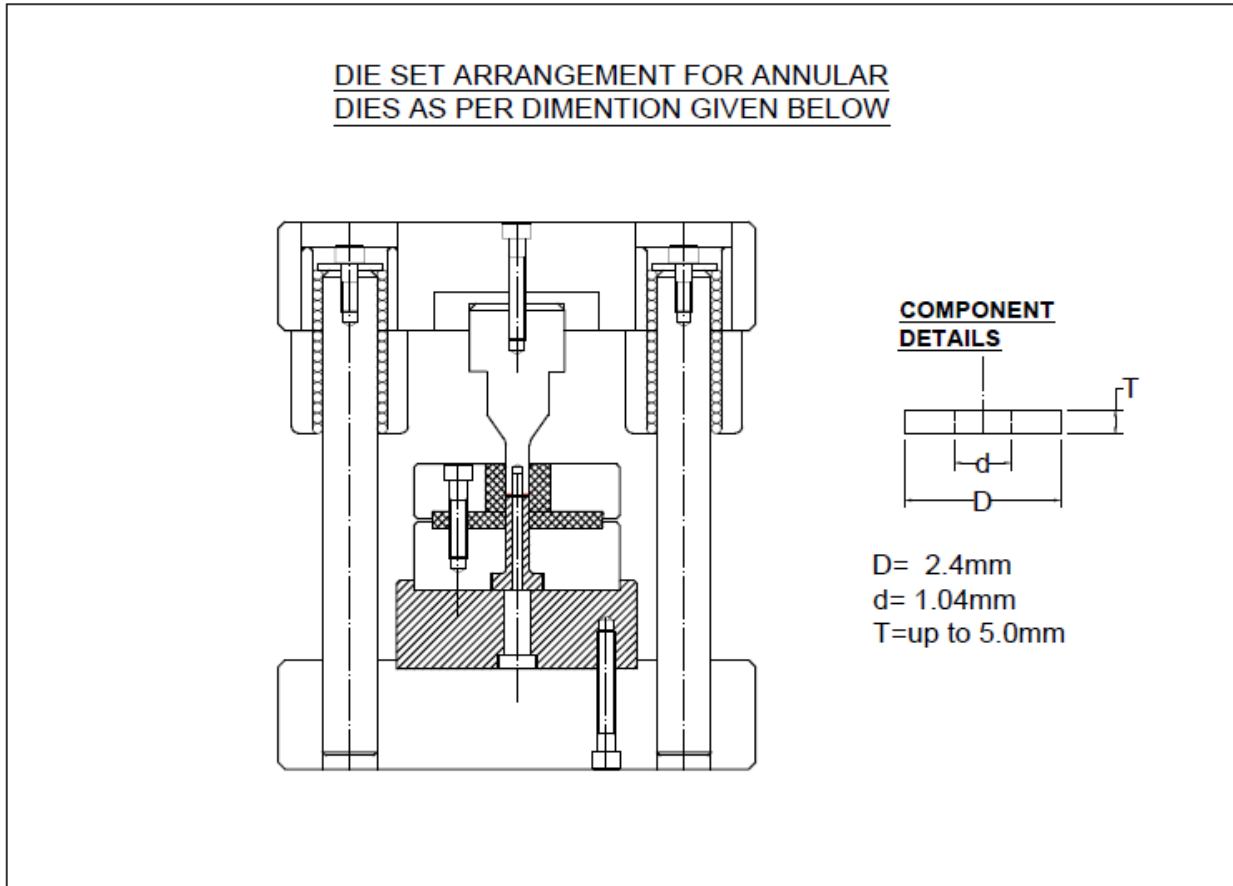


Figure 2. Design of the die set arrangements for annular dies with dimensions suitable for 45 MHz to 50 GHz coaxial airline (Inner diameter – 1.0423 mm, Outer diameter – 2.4 mm).

II. Die suitable to prepare dumbbell shaped materials for the tensile strength measurement

- ✓ The required shape and dimension of the test sample to be moulded using the quoted die is shown in the Figure 3.
- ✓ The thickness of the material can be moulded should be up to 5 mm or above.
- ✓ Proper coating should be provided for the die material to resist corrosion and contamination.

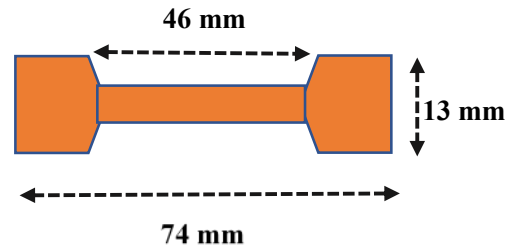


Figure 3: Shape and dimension of the dumbbell shaped test material to be moulded.

III Cylindrical Die

Cylindrical die set for making pellet of diameter 16 mm and thickness of maximum 10 mm

Warranty: The test equipment must have warranty for 1 year.

Please quote the lowest price for the above item.

The quotations should reach "Dr. Subodh G, PI KSCSTE Project, Department of Physics, University of Kerala, Kariavattom, Thiruvananthapuram, Pin- 695 581, Kerala" on or before 07/12/2020, 3 PM.

Forwarded

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