



Density Determination

DENSITY OF PLASTICS BY DISPLACEMENT

KEY WORDS

DENSITY,
PHYSICAL
PROPERTIES,
ASTM D792

DESCRIPTION

The density of solid, non-cellular plastic materials is determined using the liquid displacement method, following the international standard ASTM D792. Density is a fundamental property used for quality control, material identification, calculating weight/volume ratios, and verifying the uniformity of composition in molded or extruded parts. The test is performed using a pycnometer to ensure accurate and repeatable measurements.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Determination of density according to ASTM D792

APPLICATIONS

- Quality control of raw materials (pellets, granules)
- Identification and classification of plastics
- Verification of composition in composite materials
- Calculation of volumetric properties
- Detection of voids or porosity in parts
- Monitoring consistency between batches

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