



## DRAFT INDIAN STANDARD IN WIDE CIRCULATION

Reference : PCD/27/25751

Date : 28 May 2024

**TECHNICAL COMMITTEE : Methods of Sampling and Test for Plastics, PCD 27**

To,

**All concerned**

Dear Madam/Sir,

The following document has been prepared by the Methods of Sampling and Test for Plastics Sectional Committee, PCD 27. Please [click here](#) to view the document.

**Document Number : PCD 27 (25751) WC**

**Title of the document : PLASTICS METHODS OF TESTING PART 5 MECHANICAL PROPERTIES  
SEC XX DETERMINATION OF DYNAMIC MECHANICAL PROPERTIES SUBSEC 7 TORSIONAL  
VIBRATION NON-RESONANCE METHOD**

**Document Type : New Indian Standard**

*This document has following salient features which may require specific attention for your valuable comments:*

1) *This document describes a torsional, non-resonance method for determining the components of the shear complex modulus  $G^*$  of solid polymers in the form of bars or rods at frequencies typically in the range 0,001 Hz to 100 Hz. Higher-frequency measurements can be made, but significant errors in the dynamic properties measured are likely to result (see 10.2.1 and 10.2.2). The method is suitable for measuring dynamic storage moduli ranging from about 10 MPa, which is typical of values obtained for stiff rubbers, to values of about 10 GPa which are representative of fibre-reinforced plastics. Although materials with moduli less than 10 MPa can be studied, more accurate measurements of their dynamic properties can be made using simple shear (see ISO 6721-6) or torsional deformations of thin layers between parallel plates.*

Please examine the document and share your comments regarding further improvement in the document.

**Last date for sharing the comments is : 27 July 2024**

The comments should be shared in the prescribed template through this portal only; and the comments so received shall be taken up by the Sectional Committee for necessary action. For any other query, please write an email at [pcd@bis.gov.in](mailto:pcd@bis.gov.in) to the undersigned at Bureau of Indian Standard, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi.

In case no comments are received, we would presume your approval of the documents. However, in case we receive any comments on the document, the same shall be put up to the Sectional Committee for necessary action.

Thanking You,

**Yours faithfully,**  
**(MEENAL PASSI)**  
**Head (Petroleum, Coal and Related Products Department)**  
**Email: [pcd@bis.gov.in](mailto:pcd@bis.gov.in)**



## व्यापक परिचालन में मसौदा(दे)

हमारा सन्दर्भ : PCD/27/25751

दिनांक : 28-05-2024

**तकनीकी समिति : Methods of Sampling and Test for Plastics Sectional Committee, PCD 27**

प्राप्तकर्ता : रूचि रखने वाले सभी निकाय

महोदय/या,

निम्नलिखित मसौदा तैयार किया गया है :

प्रलेख संख्या : PCD 27 (25751) WC

शीर्षक :

कृपया इस/इन मानक(को)/संशोधन(नो) के मसौदे(दो) का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजें कि यदि ये मानक(को) के संशोधन(नो) के रूप में प्रकाशित हो तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयां आ सकती हैं।

**सम्मतियाँ भेजने की अंतिम तिथि : 27 July 2024**

सम्मतियाँ, यदि कोई हों तो, कृपया यहाँ क्लिक करके ऑनलाइन पोर्टल के माध्यम से ऊपर दी गयी अंतिम तिथि तक दर्ज कराएं।

यह/ये प्रलेख भारतीय मानक ब्यूरो की वेबसाइट [www.bis.gov.in](http://www.bis.gov.in) पर भी उपलब्ध है/हैं।

धन्यवाद।

भवदीय/भवदिया,  
विभाग प्रमुख का नाम : MEENAL PASSI  
(Petroleum, Coal and Related Products Department)  
ई-मेल : [pcd@bis.gov.in](mailto:pcd@bis.gov.in)