

- Q.25 Discuss any one test method and standard for bio degradable plastics.
- Q.26 Discuss water absorption test.
- Q.27 Define Haze. State its importance.
- Q.28 Discuss surface resistivity.
- Q.29 Explain different types of sampling methods.
- Q.30 Write the physical properties of Solvent resistance.
- Q.31 Discuss concept of statistical quality control.
- Q.32 How will you check weathering properties of plastic?
- Q.33 Discuss abrasion resistance test for plastics.
- Q.34 Explain Rockwell hardness test for plastics
- Q.35 Define the term cutting from sheets or films.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain test procedure for:
- Tensile strength
 - Luminous transmittance
- Q.37 Discuss :
- ESCR test
 - Limiting oxygen index test
- Q.38 Write short note on:
- Various types of pendulum impact test
 - Histogram, as quality control tool

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Roll No.

4th Sem / Plastic

Subject:- Plastic Testing, Characterisation and Quality Control

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 ASTM D 256 is the test standard for _____.
 - Tensile testing
 - Dielectric strength Testing
 - Izod testing
 - None of these
- Q.2 _____ is self-extinguishing in nature.
 - SAN
 - PVC
 - PP
 - None of these
- Q.3 What is SI unit of hardness?
 - kg/m³
 - kg/m²
 - g/m²
 - N/m
- Q.4 ASTM D 1238 is the standard for _____ test.
 - Tensile test
 - flexural test
 - flame test
 - MFI

- Q.5 _____ does not melt on re-heating.
- a) Thermoplastic b) Thermoset
c) Both a & b d) None of these
- Q.6 If we drop a piece of sample in water & it simply floats that it may be _____.
- a) PE b) UF
c) Nylon d) MF
- Q.7 Haze is measured in _____.
- a) Percentage b) Newton's
c) MPa d) Kg
- Q.8 ASTM D790 is the standard for _____ test.
- a) Tensile test b) flexural test
c) flame test d) MFI
- Q.9 Creep is a _____ dependent phenomenon.
- a) Temperature b) Time
c) Load d) Stress cycle
- Q.10 DSC stands for _____.
- a) Digital scanner calculator
b) Duty standard cause
c) Digital surface calorimeter
d) Differential Scanning calorimeter.

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Refractive index of glass is _____.
- Q.12 Expand ESCR.
- Q.13 When polyethylene burnt it will give _____ appearance of flame.
- Q.14 (ASTM D 1709) is the test standard for which test procedure?
- Q.15 Give two solvents for PMMA.
- Q.16 Expand ASTM.
- Q.17 Name four optical tests for plastics
- Q.18 PVC turns _____ over heating
- Q.19 Define ESCR test
- Q.20 Define milling.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 How will you check weathering properties of plastic?
- Q.22 Explain tests for checking electrical insulation resistance of plastics.
- Q.23 What is refractive index? Explain its importance in plastic products.
- Q.24 Explain flammability of cellular plastics.