

HIPM Plastic product Design Evaluation

18
23

* Required

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- Name of Candidate
Aakash B. Shelar

- Which of following materials are used in Consumer Durable products?

Mark only one oval.

- PP
- HIPS
- ABS
- POM
- Nylon
- All of Above

✓

- Which of below material is semi crystalline?

Mark only one oval.

- PP
- ABS
- PC
- All of Above

✗

- What is Tensile modulus range value of HIPS at room temperature?

Mark only one oval.

- 700 - 900 MPa
- 1000 - 1600 Mpa
- 1800-2200 Mpa
- 3500 - 4000 Mpa

✓

- What is Tensile modulus range value of PP at room temperature?

Mark only one oval.

- 700 - 900 MPa
- 1000 - 1400 Mpa
- 1800-2200 Mpa
- 3500 - 4000 Mpa

✓

- What is melting temperature range value of PP material?

Mark only one oval.

- 70-100 Deg C
- 140- 190 Deg C
- 200 - 264 Deg C
- 320 - 400 Deg C

✓

8. What is meaning of HDT?

Mark only one oval.

- Heat Deflection Temperature
 Highly Defined Texture
 High Density Testing
 None of above



9. How much material shrinkage value considered for HIPS material in percentage value?

Mark only one oval.

- 0.2 - 0.8
 1.1 - 1.4
 2.2 - 3.2
 3.4-3.8



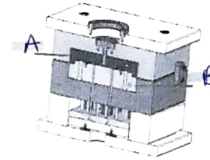
10. What is typical Nominal wall thickness range for injection mounding parts in mm?

Mark only one oval.

- 0.2 - 0.9
 1 - 1.5
 2 - 5
 5 - 9



11. Below figure shows Core and Cavity, which of following statement is true?



Mark only one oval.

- A is Cavity and B is Core
 B is Cavity and A is Core
 Both above statements are wrong
 Both above statements are right



12. Refereeing below figure, which of following statement is true, when Designing the Bosses in injection molding?

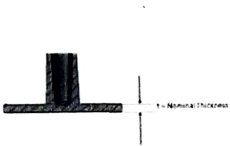


Mark only one oval.

- Both A and B both Boss design are correct
 A Boss design is only correct
 B Boss design is only correct
 Both A and B both Boss design are NOT correct



13. What should be ideal wall thickness for Bosses with respect to nominal thickness?
(Refer below image)

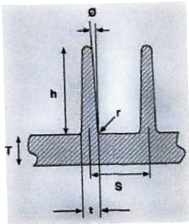


Mark only one oval.

- 0.2 * t
- 0.6 * t
- 1.2 * t
- 1.6 * t



14. Referring below figure, what is ideal rib thickness? where T is nominal base thickness and t is Rib thickness

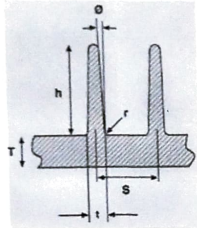


Mark only one oval.

- 0.25 * T
- 0.6 * T
- 0.8 * T
- 1.2 * T



15. Referring below figure, what is ideal rib height? where T is nominal base thickness and h is Rib height

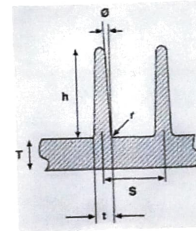


Mark only one oval.

- $3 * T < h$
 $3 * T > h$
 $4.8 * T = h$
 None of above



16. Referring below figure, what is ideal distance between two ribs? where T is nominal base thickness and S is ideal distance between the ribs



Mark only one oval.

- $2 * T < S$
 $2 * T > S$
 $1.2 * T = S$
 $1.6 * T = S$



17. Referring to below figure, what is true about the Locators?

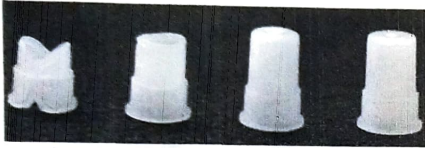


Mark only one oval.

- A is 2 way locator whereas B is 4 way locator
 A is 4 way locator whereas B is 2 way locator
 A and B are 4 way locators
 A and B are 2 way locators



18. Referring to below figure, what is the name of defect?

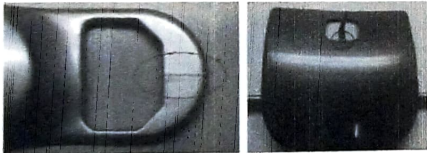


Mark only one oval.

- Flow Hesitation
 Short-shot
 Weld line
 sink mark



19. Referring to below figure, what is the name of defect?



Mark only one oval.

- Sinkmark
 Weldline
 flow hesitation
 Air traps



20. How to avoid the weld lines defects?

Mark only one oval.

- Change the gate positions
 Change the part thickness.
 Increase melt and mold temperature. This will allow the flow fronts to interfuse more.
 All of Above



21. How to avoid the short shot defects?

Mark only one oval.

- Avoid hesitation.
 Eliminate air traps
 Increase mold and melt temperature
 All of Above



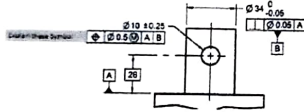
22. Which of following statement is true for defining texture for injection molding?

Mark only one oval.

- Normally 1.5 deg additional to normal draft for 0.025 mm depth of texture
 Normally 1.5 deg subtraction from normal draft for 0.025 mm depth of texture
 Normally 0.15 deg additional to normal draft for 0.025 mm depth of texture
 None of above



23. Referencing to below Figure, Explain the GD&T symbols



ϕ - position
 (M) - MMC - maximum material condition
 A/B - Reference planes
 A - Datum

\perp - perpendicularity
 $\phi 0.05$ - diameter 0.05
 A - Reference planes
 B - Datum

24. Quilgo Test ID *

This question is filled automatically **DO NOT EDIT OR REMOVE**

$\phi 34 \pm 0.05$ - diameter 34 with 0 to 0.05 tolerance

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