

Rheology Basics

Quiz For:

- (1) Rheology Variables and Useful Output
- (1.1) Rheology Definitions and Scope

Lisa R. Murray, PhD

Which of the following motions involve shear forces?

- (a) Painting a Wall
- (b) Hugging a Pillow
- (c) Cleaning a Countertop
- (d) Spraying hairspray
- (e) Shooting an Arrow
- (f) Stirring Soup

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Which of the following motions involve shear forces? (a) Painting a Wall (b) Hugging a Pillow (c) Cleaning a Countertop (d) Spraying hairspray (e) Shooting an Arrow (f) Stirring Soup

Which of the following are considered "perfect solids" by practical rheologists? (a) Hard Plastics

- (b) Pudding
- (c) Asphalt
- (d) Metal Pieces
- (e) Glue
- (f) Aluminum Foil



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(a) Hard Plastics (b) Pudding

(c) Asphalt

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Which of the following substances have (any) liquid-like qualities?

- (a) Soft foam
- (b) Pudding
- (c) Blood
- (d) Wet Clay
- (e) Glue
- (f) Limestone



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Which of the following substances have any liquid-like qualities? (a) Soft foam (b) Pudding (c) Blood (d) Wet Clay (e) Glue (f) Limestone ← Perfect Solid Murray Which of the following are examples of internal friction? (a) Throwing a ball against a wall (b) Nanoparticles sliding against each other in a colloidal suspension (c) Fat molecules coalescing in melting chocolate (d) Gulping down a smoothie (e) Brushing wet hair (f) UV-induced bonding in a resin Murray Rheology Consulting Which of the following are examples of internal friction? (a) Throwing a ball against a wall (b) Nanoparticles sliding against each other in a colloidal suspension (c) Fat molecules coalescing in melting chocolate (d) Gulping down a smoothie (e) Brushing wet hair

(f) UV-induced bonding in a resin

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Which of the following can be tested by a viscometer? (a) Honey (b) Water (c) Putty (d) Pudding (e) Simple oil (f) Dilute solution

Which of the following can be tested by a viscometer?	
(a) Honey (b) Water Requires a very sensitive viscometer (c) Putty (d) Pudding (e) Simple oil Assuming that they are Newtonian	
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