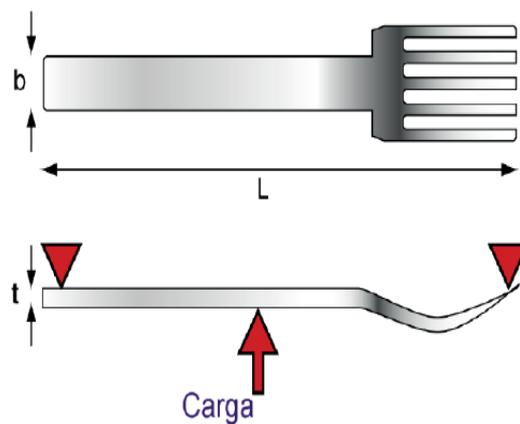


SELECCIÓN DE MATERIALES Y PROCESOS DE FABRICACIÓN

SELECCIÓN DE MATERIALES CANDIDATOS PARA CUBIERTOS DESECHABLES

Professor Juan Carlos Albiñana Medina
IES POLITECNIC - CASTELLÓN



GRANTA
TEACHING RESOURCES

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www.grantadesign.com/education/resources

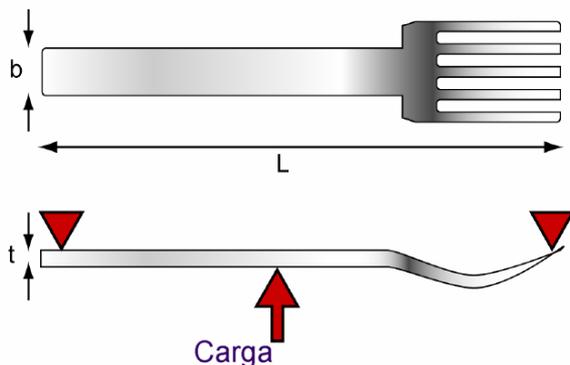
SELECCIÓN DE MATERIALES Y PROCESOS DE FABRICACIÓN:

"APLICACIÓN DEL PROCESO DE SELECCIÓN DE MATERIALES BASADO EN LOS DIAGRAMAS DE ASHBY"

"SELECCIÓN DE MATERIALES CANDIDATOS PARA CUBIERTOS DESECHABLES"

Albiñana Medina Joan Carles

CUBIERTOS DESECHABLES PARA COMIDA RÁPIDA.



Fabricante comercial:

<http://www.plasticspoon-cn.es/>

FUNCIÓN

- Producir cubiertos desechables respetuosos con el medio ambiente.

OBJETIVOS

- Maximizar la carga de rotura.
- Minimizar la masa de material.
- Minimizar la energía de producción.
- Minimizar el coste del material.

RESTRICCIONES

- Material reciclable o biodegradable.
- Reutilizable. Apto para lavavajillas.
- No inflamable o autoextinguible.
- Dimensiones específicas.

Link Record	Number Passed
 ProcessUniverse: \ Shaping \ Deformation	1366 <input type="button" value="Show"/>
 ProcessUniverse: \ Shaping \ Molding	726 <input type="button" value="Show"/>

Click on the headings to show/hide selection criteria

- General properties**
- Composition overview**
- Composition detail**
- Mechanical properties**
- Thermal properties**

	Minimum	Maximum	
Melting point	 <input type="text"/>	<input type="text"/>	°C
Glass temperature	 <input type="text"/>	<input type="text"/>	°C
Maximum service temperature	 70	<input type="text"/>	°C
Minimum service temperature	 <input type="text"/>	<input type="text"/>	°C
Thermal conductivity	 <input type="text"/>	<input type="text"/>	W/m.°C
Specific heat capacity	 <input type="text"/>	<input type="text"/>	J/kg.°C
Thermal expansion coefficient	 <input type="text"/>	<input type="text"/>	µstrain/°C

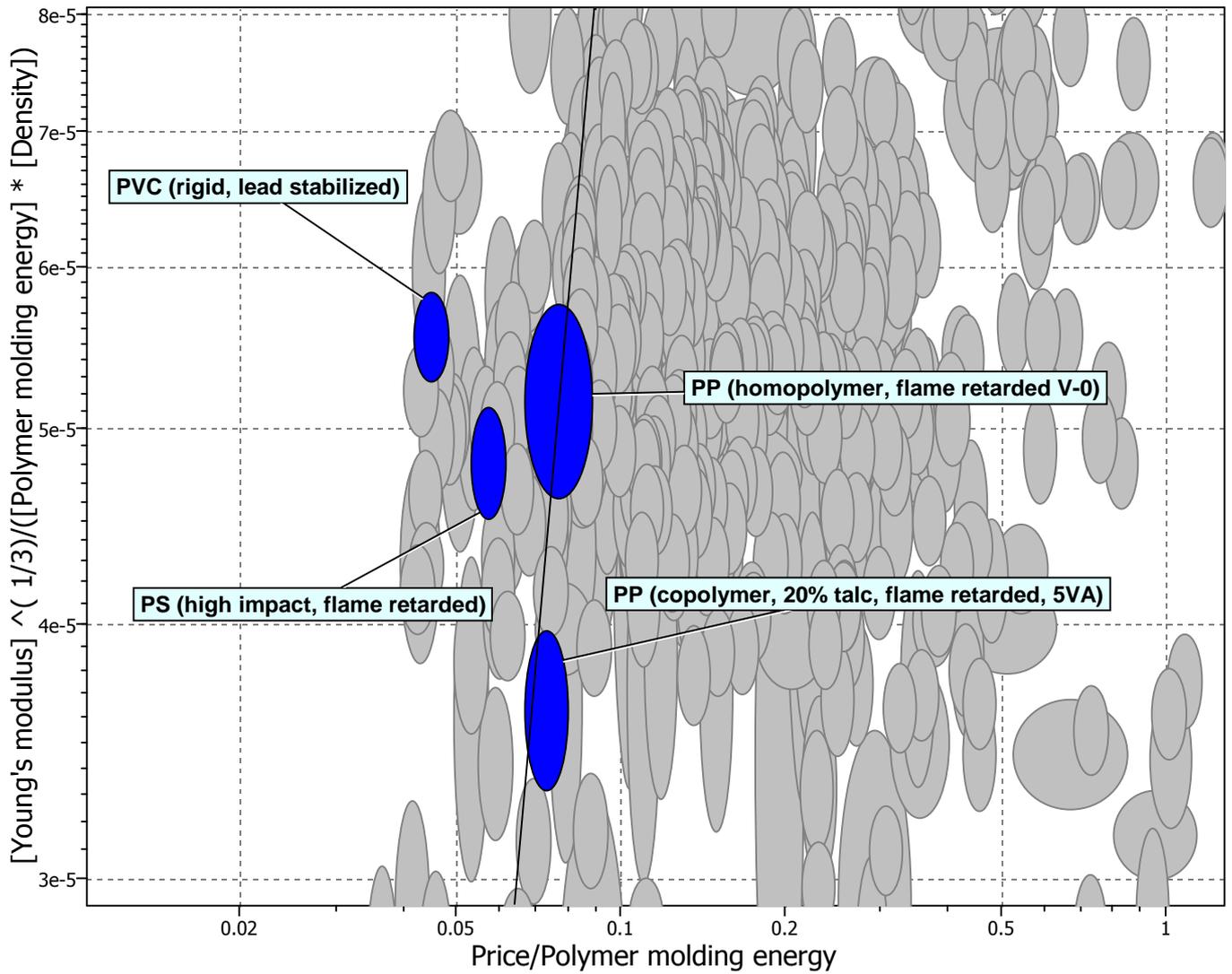
- Electrical properties**
- Optical properties**
- Durability: flammability**

Flammability Self-extinguishing

Durability: fluids and sunlight	
Water (fresh)	Excellent
Water (salt)	Excellent
Weak acids	Acceptable Excellent
Strong acids	
Weak alkalis	Acceptable Excellent

Material recycling: energy, CO2 and recycle fraction

Recycle Minimum Maximum



Author

We would like to thank Professor Juan Carlos Albiñana Medina of the IES POLITECNIC - CASTELLÓN for contributing this resource.

You can contact him via the email address jcalbinana@gmail.com

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Other resources include:

- 19 PowerPoint lecture units
- Exercises with worked solutions
- Recorded webinars
- Posters
- White Papers
- Solution Manuals
- Interactive Case Studies

