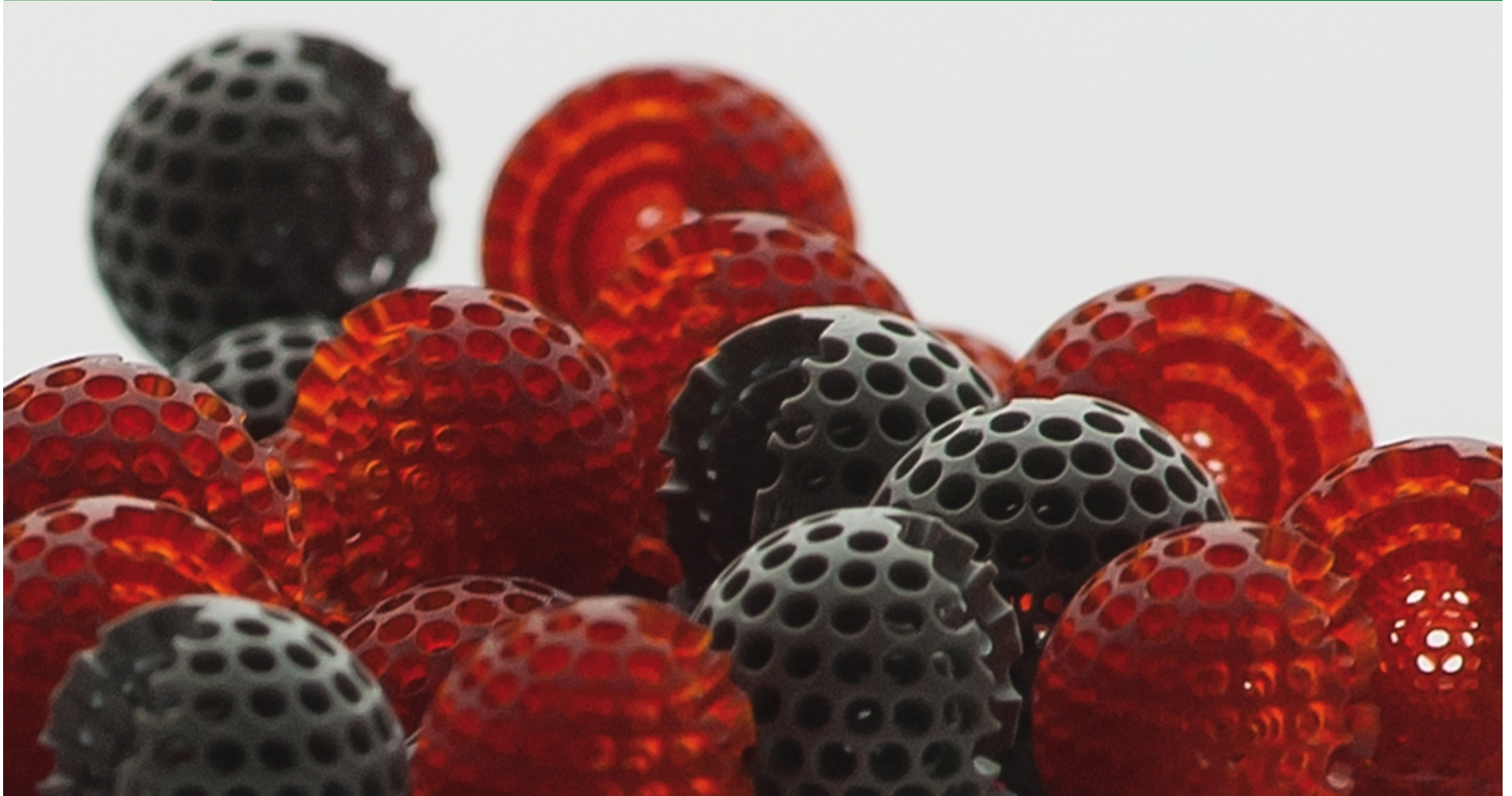
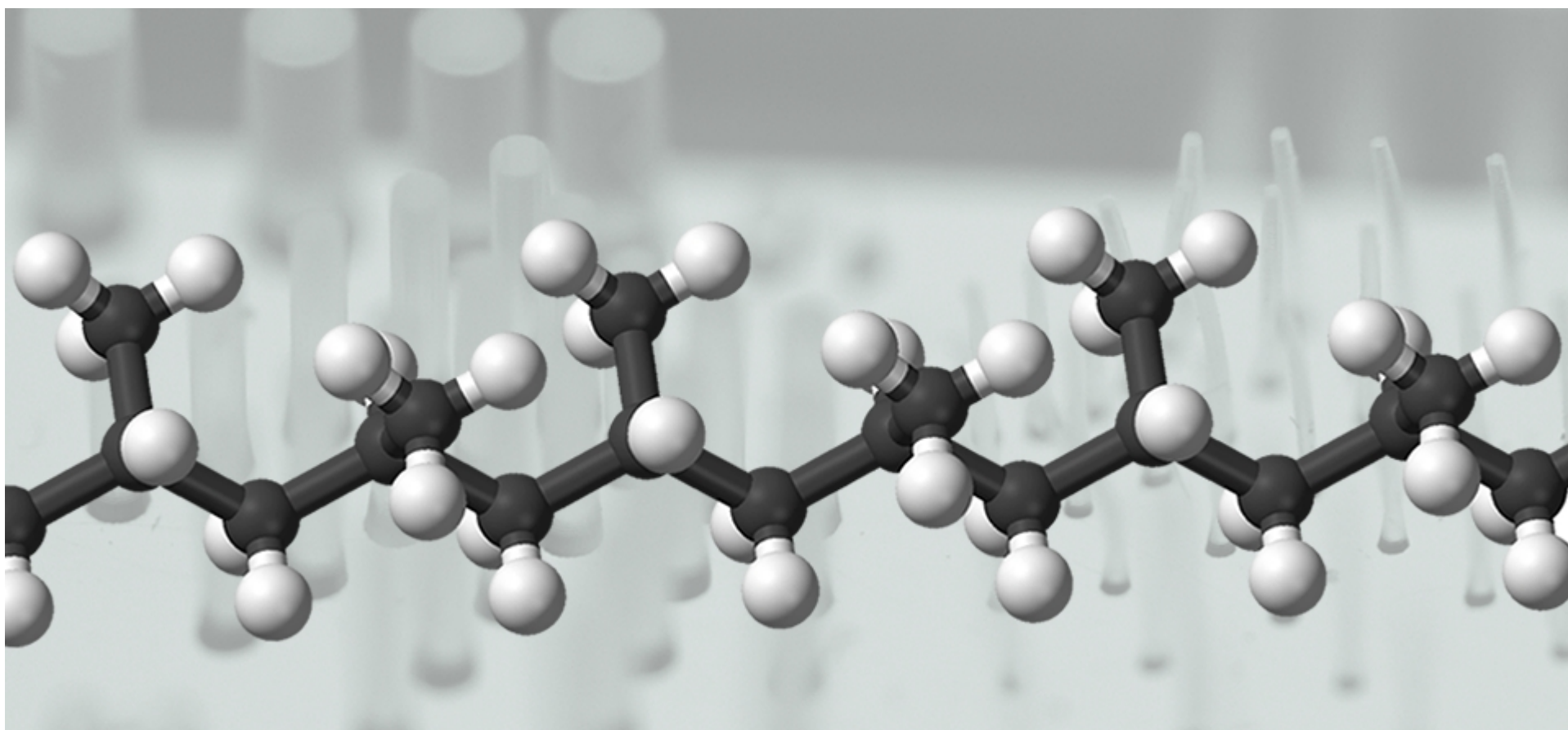


## Micro Prototyping and the wonderful world of minute details



We are actively involved in making connections every day ...

- Technical connections are our expertise ...





But Mareco also wants to connect people, ideas and knowledge

- Sharing knowledge and ideas are the connections we believe can make a real difference ...



## Why do we want to share knowledge and ideas?

- Mareco wants to be an initiator and an inspirer in a changing world.





## Applications in the consumer sector

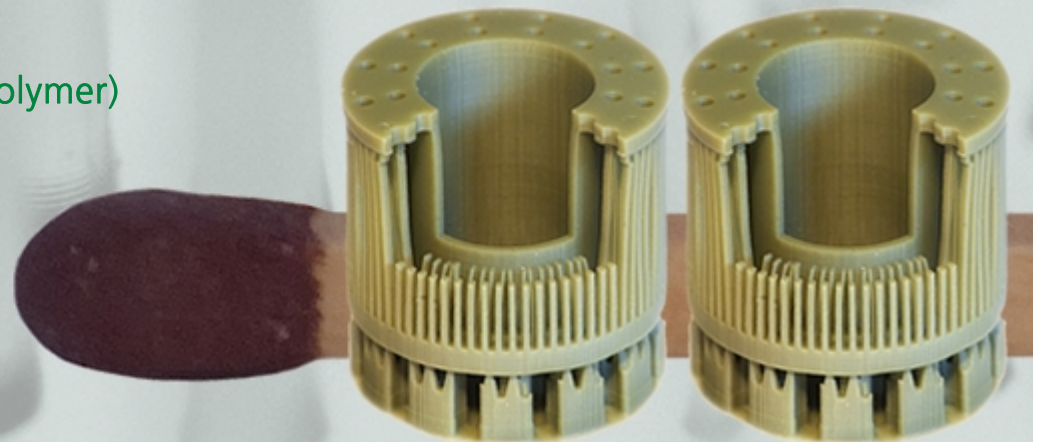
- Amazing



## Example from consumer sector

### ■ Technological miracle

Product length: 11.6 [mm]  
Diameter: Ø 15 [mm]  
Rib thickness: 0.35 [mm]  
Hole diameter: Ø 0.85 [mm]  
Ridge thickness: 0.60 [mm]  
Material: HTM140 (nano-cured polymer)



## Applications in the medical industry

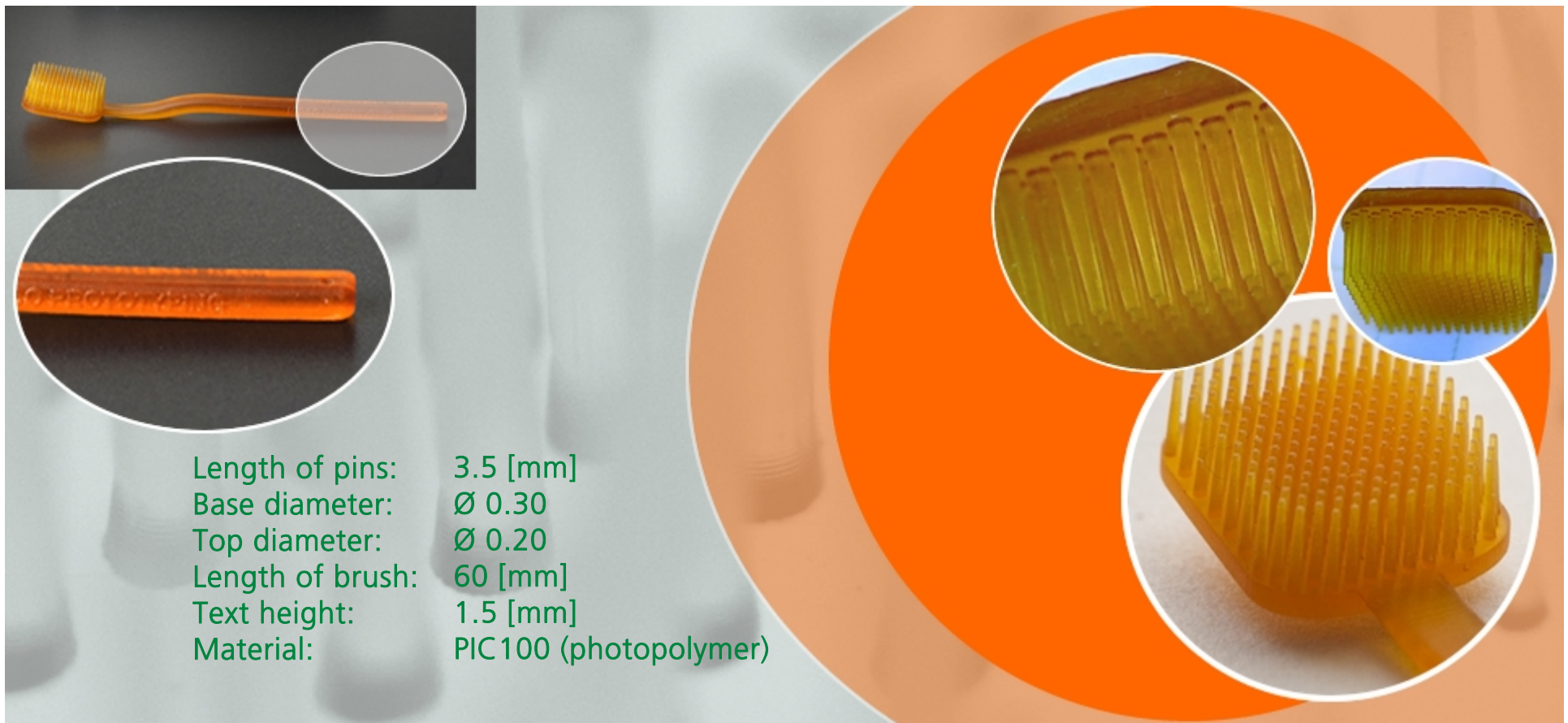
- Fascinating





## Example from the medical industry

### ■ Technical tour de force





## Applications in electronics

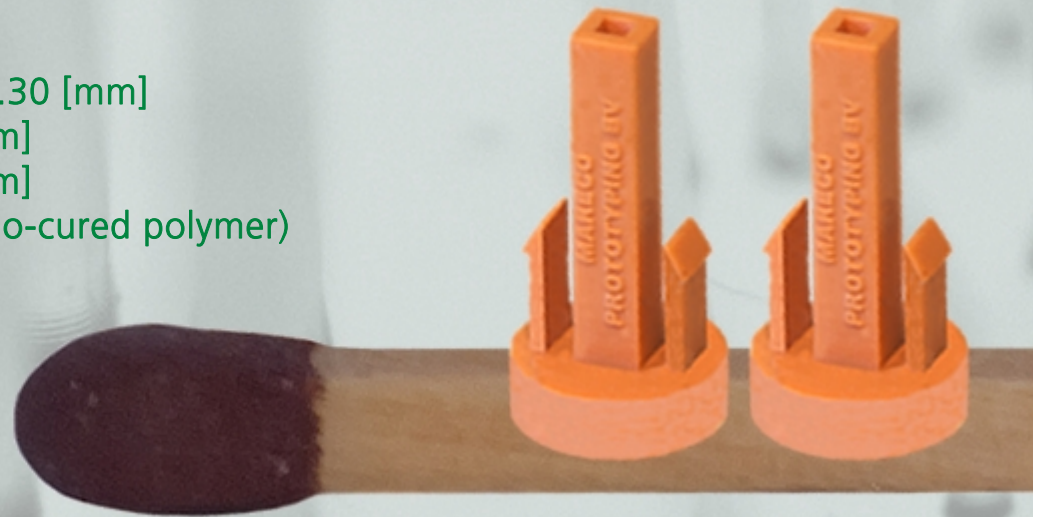
- The future has many unknown perspectives to offer



## Example 1 from electronics

### ■ The wonderful world

Product length: 9 [mm]  
Base diameter: Ø 4.5  
Hole dimensions: 0.30 x 0.30 [mm]  
Snap hook wall thickness: 0.37 [mm]  
Text height: 0.38 [mm]  
Material: RCP30 (ceramic nano-cured polymer)

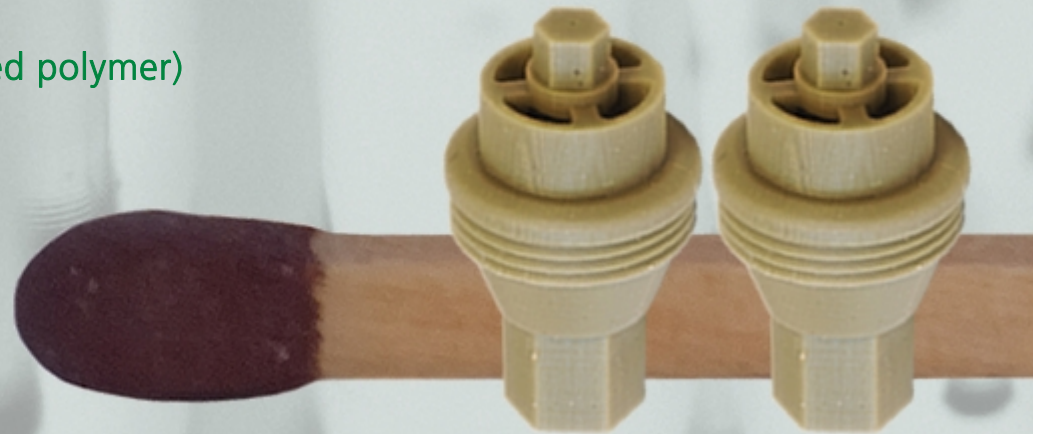




## Example 2 from electronics

### ■ The wonderful world

Product length: 16.8 [mm]  
Largest diameter: Ø 9.75 [mm]  
Hexagon: SLW 2.5 [mm]  
Text height: 0.30 [mm]  
Material: HTM140 (nano-cured polymer)



## Example 3 from electronics

### ■ The wonderful world





# Mareco: the number one knowledge organisation for you

## ■ Technology Matrix:

Technology matrix available on:  
[www.micro-prototyping.com](http://www.micro-prototyping.com)

tabel 1 ® : Micro-Prototyping met DLP/DMD							
hoe meer plusjes, hoe beter							
belangrijkste gewenste eigenschap	factoren	<u>RCP-130</u>	<u>R-11</u>	<u>PIC100</u>	<u>E-200</u>	<u>E-300</u>	<u>E-500</u>
Snap-Fit onderdelen	functie	+++++	+++	-	-	-	+++
	prijs	+++++	+++++	-	-	-	+++
	levertijd	++++	+++++	-	-	-	+++
Verloren wasmethode	functie	-	-	+++++	-	-	-
	prijs	-	-	+++++	-	-	-
	levertijd	-	-	+++++	-	-	-
Hoge stijfheid	functie	+++++	+++	-	+	+++	+
	prijs	+++++	+++	-	+++	+++	+++
	levertijd	++++	+++++	-	++++	++++	++++
Transparantie	functie	-	++	-	-	+++++	++
	prijs	-	+++	-	-	+++	+++
	levertijd	-	+++	-	-	+++	+++
Bio-compatible	functie	-	-	-	+++++	+++++	+++++
	prijs	-	-	-	+++++	+++++	+++++
	levertijd	-	-	-	+++++	+++++	+++++

## We jointly develop new materials and applications

### ■ Photopolymers and acrylates:

- Ceramic Nano Cured RCP 130
- Nano Cured HTM140
- Detailed R11
- Investment Casting PIC 100

... mareco R&D continuously co-develops new materials

Eigenschappen RCP 130			
Properties	Units	Method	Value
Density	[G / cm <sup>3</sup> ]	DIN ISO 1183-1	
Tensile Strength	[MPa]	DIN EN ISO 527-1	46
Elongation at Break	%	DIN EN ISO 527-1	2.5
Flexural Strength	[MPa]	DIN EN ISO 178	102
Flexural Modulus	[MPa]	DIN EN ISO 178	3860
Izod Impact-Notched	[KJ / m <sup>2</sup> ]	DIN EN ISO 180	0.016
Hardness	Shore D	DIN EN ISO 868	93.1
Heat Deflection Temp. (HDT) op 0,46 Mpa	° C	ASTM D 648	67
Heat Deflection Temp. (HDT) op 1,81 Mpa	° C	ASTM D 648	53.6
Heat Deflection Temp. (HDT) op 0,46 MPa na ovendroging	° C	ASTM D 648	223
Heat Deflection Temp. (HDT) op 1,81 MPa na ovendroging	° C	ASTM D 648	102

Tables of materials available on:  
[www.micro-prototyping.com](http://www.micro-prototyping.com)



## Discussion - questions - answers

- Inspire others today, tomorrow and in the future

You can find further  
information on  
our website:  
[www.micro-prototyping.com](http://www.micro-prototyping.com)



## Mareco at the trade fair

- You're most welcome to visit us; please make an appointment!

Stand number

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