



**MOVINGLight®**  
High Resolution  
Liquid Resin 3D Printers



**A PORTFOLIO OF PREMIUM MATERIALS**

Prodways' exclusive MOVINGLight® technology, based on photo-polymerization of liquid resin via moving DLP® projectors, is designed to work with premium acrylate and hybrid resins to deliver unequaled levels of precision and productivity for a large array of applications in industries such as dental, medical, aerospace, investment casting, molding, and R&D centers.

**INNOVATION AND EXPERTISE**

Prodways is constantly working to develop new materials with unique mechanical, physical, and aesthetic properties, supported by integrated R&D teams as well as strategic partners. Our experts also support customer research and innovation for the development of new materials to push MOVINGLight® 3D printing technology into new territories.

## ProMaker L & LD SERIES compatible resins 2022

PLASTCure materials have been developed by Prodways and our partners to work in combination with ProMaker machines, offering an effective additive manufacturing solution for many applications, including biomedical and industrial needs.

SPECIFICATIONS	PLASTCURE CAST 200*	PLASTCURE CAST 300 HD*	PLASTCURE ABS 3000*	PLASTCURE RIGID 10 500*
<b>Compatible with</b>	L series / LD series	L series / LD series	L series	L series
<b>Appearance</b>	Orange translucent	Orange translucent	White	Ivory opaque
<b>Typical Application Examples</b>	Investment casting of accurate and thin parts for dental, jewelry or industrial applications.	Investment casting of accurate and filigree parts for jewelry, art & design, dental, pressable ceramics and industrial applications.	RTV patterns and durable concept models requiring high accuracy, excellent resolution and surface finish in industries such as electronics, aerospace and automotive.	Molding, rapid tooling, wind tunnel testing, high temperature testing, electrical casings and automotive housings. Parts requiring thermal stability, extreme accuracy and quick turnaround
<b>Specification</b>	<ul style="list-style-type: none"> <li>· Good reactivity and low viscosity</li> <li>· High accuracy</li> <li>· Ability to produce sharp-edged parts</li> <li>· Outstanding burnout properties with nearly zero ash content</li> </ul>	<ul style="list-style-type: none"> <li>· High accuracy allowing very thin details</li> <li>· Outstanding burnout properties with nearly zero ash content</li> </ul>	<ul style="list-style-type: none"> <li>· High detail resolution</li> <li>· Sharp geometries</li> <li>· Good surface finish, shiny aspect</li> </ul>	<ul style="list-style-type: none"> <li>· Excellent detail resolution and sidewall quality</li> <li>· Easy finishing</li> <li>· Superior thermomechanical properties</li> <li>· Low thermal expansion</li> </ul>
<b>Liquid density (g/cm<sup>3</sup>)</b>	1,11	1,10	1,11	1,60
<b>Viscosity @ 28°C (cps)</b>	200 - 400	300 - 500	395	900 - 1100
<b>Hardness (Shore D)</b>	85 - 90	70 - 75	89	90 - 95
<b>Tensile Modulus (MPa) ASTM D638</b>	N/A	N/A	3050	7700 - 8200
<b>Tensile Strength (MPa) ASTM D638</b>	N/A	N/A	64,7	50 - 65
<b>Elongation at Break (%) ASTM D638</b>	N/A	N/A	N/A	0,5 - 1
<b>Flexural Strength (MPa) ASTM D790</b>	65 - 75	40 - 50	121	65 - 90
<b>Flexural Modulus (MPa) ASTM D790</b>	1400 - 1800	800 - 1200	2650	7000 - 8000
<b>Izod Impact (J/m) ASTM D256A</b>	N/A	N/A	N/A	N/A
<b>HDT @ 0.46 MPa (°C) ASTM D648</b>	N/A	N/A	126	120 - 125
<b>Residual ash content</b>	No residue	No residue	N/A	Not relevant
<b>Water Absorption (%) ASTM D570</b>	N/A	N/A	N/A	0,5 - 0,7
<b>By</b>	Prodways Materials	Prodways Materials	Prodways Materials	DSM Somos

SPECIFICATIONS	ABSOLUTE ALIGNER*	PLASTCURE MODEL 310*	PLASTCURE MODEL 320*	PLASTCURE DENTAL TRAY*	PLASTCURE CLEAR 200*
<b>Compatible with</b>	LD series	L series / LD series	L series / LD series	L series / LD series	L series
<b>Appearance</b>	Blue	Light beige opaque	Beige opaque	Beige opaque	Clear
<b>Typical Application Examples</b>	Specifically suited to printing dental models for thermoforming applications.	Can be used for printing a broad range of dental models, in particular models for prosthetics works.	Can be used for printing a broad range of dental models, in particular models for prosthetics works.	Medical device class I certification, developed for the print of custom impression trays.	Designed for production of dental drill guides. Can be used as well for various non-medical applications if high transparency is required.
<b>Specification</b>	<ul style="list-style-type: none"> <li>· High accuracy and excellent resolution</li> <li>· Ability to produce sharp edges and detailed parts</li> <li>· High green strength and good mechanical properties</li> <li>· Outstanding smooth surface finish</li> </ul>	<ul style="list-style-type: none"> <li>· High accuracy and excellent resolution</li> <li>· Ability to produce sharp edges and detailed parts</li> <li>· High green strength and good mechanical properties</li> </ul>	<ul style="list-style-type: none"> <li>· High accuracy and excellent resolution</li> <li>· Ability to produce sharp edges and detailed parts</li> <li>· High green strength and good mechanical properties</li> </ul>	<ul style="list-style-type: none"> <li>· High accuracy and excellent resolution</li> <li>· Ability to produce sharp edges and detailed parts</li> <li>· High green strength and good mechanical properties</li> </ul>	<ul style="list-style-type: none"> <li>· Ultra-clear material with high transparency and superior build speed</li> <li>· For dental drill guides the material is classified and certified as a medical device class I following the European regulation 93/42/EWG.</li> <li>· The final product can be sterilized according to the recommendations in the instructions</li> </ul>
<b>Liquid density (g/cm<sup>3</sup>)</b>	1,08	1,11	1,11	1,11	1,10
<b>Viscosity @ 28°C (cps)</b>	350 - 450	350 - 550	350 - 550	350 - 550	500 - 700
<b>Hardness (Shore D)</b>	80 - 85	85 - 90	85 - 90	85 - 90	85 - 90
<b>Tensile Modulus (MPa) ASTM D638</b>	2200 - 2500	2800 - 3100	2800 - 3100	2800 - 3100	2500 - 2900
<b>Tensile Strength (MPa) ASTM D638</b>	46 - 50	72 - 76	72 - 76	72 - 76	66 - 71
<b>Elongation at Break (%) ASTM D638</b>	4 - 6	5 - 7	5 - 7	5 - 7	3 - 4
<b>Flexural Strength (MPa) ASTM D790</b>	80 - 90	110 - 120	110 - 120	110 - 120	110 - 120
<b>Flexural Modulus (MPa) ASTM D790</b>	1900 - 2100	2300 - 2600	2300 - 2600	2300 - 2600	2500 - 2700
<b>Izod Impact (J/m) ASTM D256A</b>	N/A	N/A	N/A	N/A	N/A
<b>HDT @ 0.46 MPa (°C) ASTM D648</b>	66 - 70	70 - 80	70 - 80	70 - 80	66 - 69
<b>Residual ash content</b>	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
<b>Water Absorption (%) ASTM D570</b>	1,3 - 1,5	0,6 - 0,8	0,6 - 0,8	0,6 - 0,8	0,5 - 0,7
<b>By</b>	Prodways Materials	Prodways Materials	Prodways Materials	Prodways Materials	Prodways Materials

\* Performance characteristics of these materials may change according to product application, operating conditions, material combined or end use