

Produits de stéréolithographie

HUNTSMAN

Enriching lives through innovation

Huntsman Advanced Materials Americas Inc.

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RenShape® SL 7810

**Pour utilisation
avec les systèmes
Solid State Laser**

- Haute Resistance simulant l'ABS
- Bonne résistance et stabilité dans le temps

DESCRIPTION

RenShape® SL 7810 est un produit de stéréolithographie simulant l'ABS, qui produit des pièces blanches avec une excellente qualité des parois verticales et des détails fins, et de bonnes performances en températures. Ce produit est aussi idéal pour les maîtres-modèles et les outils silicones.

PROPRIETES	CONDITIONS	VALEURS
Aspect		Blanc
Densité	@ 25°C (77°F)	1.13 g/cm ³
Viscosité	@ 25°C (82°F)	300 cps
Viscosité	@ 30°C (86°F)	210 cps
Profondeur de pénétration (Dp)		5.6
Energie critique (Ec)		9.51 mJ/cm ²
Epaisseur des couches*		0.10 mm (0.004 in.) 0.15 mm (0.006 in.)

* Dépend de la géométrie des pièces et des paramètres de fabrication.

Produit post-durci

PROPRIETES	METHODE DE TEST	VALEUR Post durcissement par UV 90min	VALEUR 90 minutes UV + traitement thermique 2 heures à 80°C
Dureté, Shore D	ASTM D-2240	86	87
Module d'élasticité en flexion	ASTM D-790	1,900-2,400 MPa (275-348 ksi)	2,100-2,400 MPa (304-348 ksi)
Résistance à la flexion	ASTM D-790	59-72 MPa (8,500-10,000 psi)	64-72 MPa (9,000-10,000 psi)
Module d'élasticité à la traction	ASTM D-638	1,800-2,400 MPa (260-348 ksi)	2,000-2,400 Mpa (290-348 ksi)
Résistance à la traction	ASTM D-638	36-51 MPa (5,200-7,400 psi)	39-51 MPa (5,700-7,400 psi)
Allongement a la rupture	ASTM D-638	10-20%	10-14%
Resistance aux chocs sur eprouvettes entaillées	ASTM D-256	44-48 J/m (0.83-0.91 ft.-lb./in.)	44-49 J/m (0.83-0.93 ft.-lb./in.)
Température de fléchissement sous charge	ASTM D-648 @ 66 psi @ 264 psi	51°C (124°F) xx°C (xxx°F)	50°C (122°F) xx°C (xxx°F)
Transition vitreuse, Tg	DMA, E" peak	62°C (144°F)	62°C (144°F)
Coefficient d'expansion thermique	TMA (T<Tg)	96 x 10 ⁻⁶ /°C	99 x 10 ⁻⁶ /°C
Densité		1.16g/cm ³	

CAUTION:

Huntsman Advanced Materials Americas Inc. maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material. Copies of the latest MSDS may be requested by calling our customer service group at 800-367-8793 or emailing your request to adhesives_group@huntsman.com.

FIRST AID!

Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

Inhalation: Remove subject to fresh air.

Swallowing: Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

KEEP OUT OF REACH OF CHILDREN

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