

Ultracur3D[®] RG 35

Rigid | HDT 80 | Clear

Post-Processing

Effect on Mechanical Properties
and Appearance



Version: 1.0

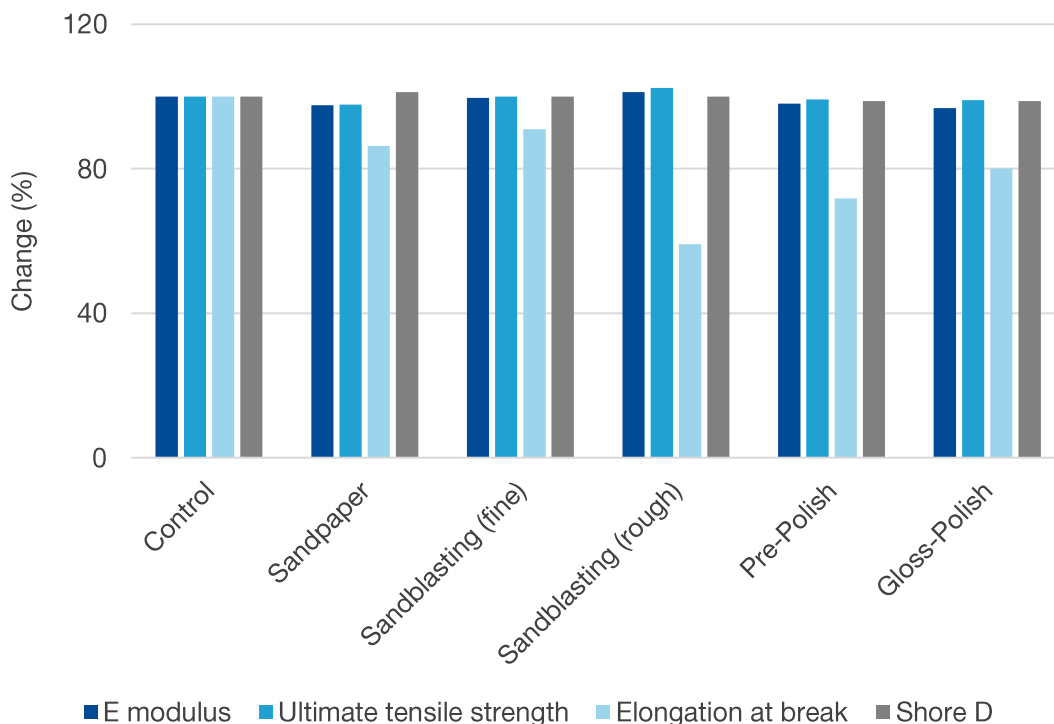
Some applications may require adequate post-processing to smoothen the surface from support structures as well as to enhance the visual appearance. The post-processing can be achieved through manual or automatic grinding, smoothing, polishing, sandblasting or else. A special test was conducted to observe the change in mechanical properties and appearance.

Test Method and Specimens

ASTM D638 type IV tensile bars and Shore D samples were prepared manually with five different post-process methods after full UV post-curing.

Sample	Details
Sandpaper	Sandpaper with Granulation 320
Sandblasted (fine)	Blasting sand 50 µm (400-200 mesh)
Sandblasted (rough)	Blasting sand 125 µm (115 mesh)
Pre-Polish	Insert brush (SCOTCH BRITE) with Pumice powder
Gloss-Polish	Nettle buff with polishing paste

Mechanical Testing



Change in mechanical properties after post-processing

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Surface appearance

Control



Sandpaper



Sandblasting (fine)



Sandblasting (rough)



Pre-Polish



Gloss-Polish

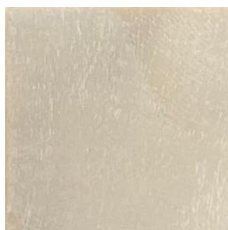


Change of Surface appearance with Logo as background

Control



Sandpaper



Sandblasting (fine)



Sandblasting (rough)



Pre-Polish



Gloss-Polish



Change of Surface appearance with dark background