

## Tough oligomers

### Example Thermoplastics

ABS

PC

Nylon

PMMA



Developing 3D printing resins with high toughness and durability is critical for functional applications. Sartomer® tough UV oligomers are designed to combine strength with flexibility, enhancing mechanical performance to deliver resilient printed parts that can withstand impact, stress, and demanding mechanical environments.

### SELECTED OLIGOMERS FOR 3D PRINTING

#### Neat Properties

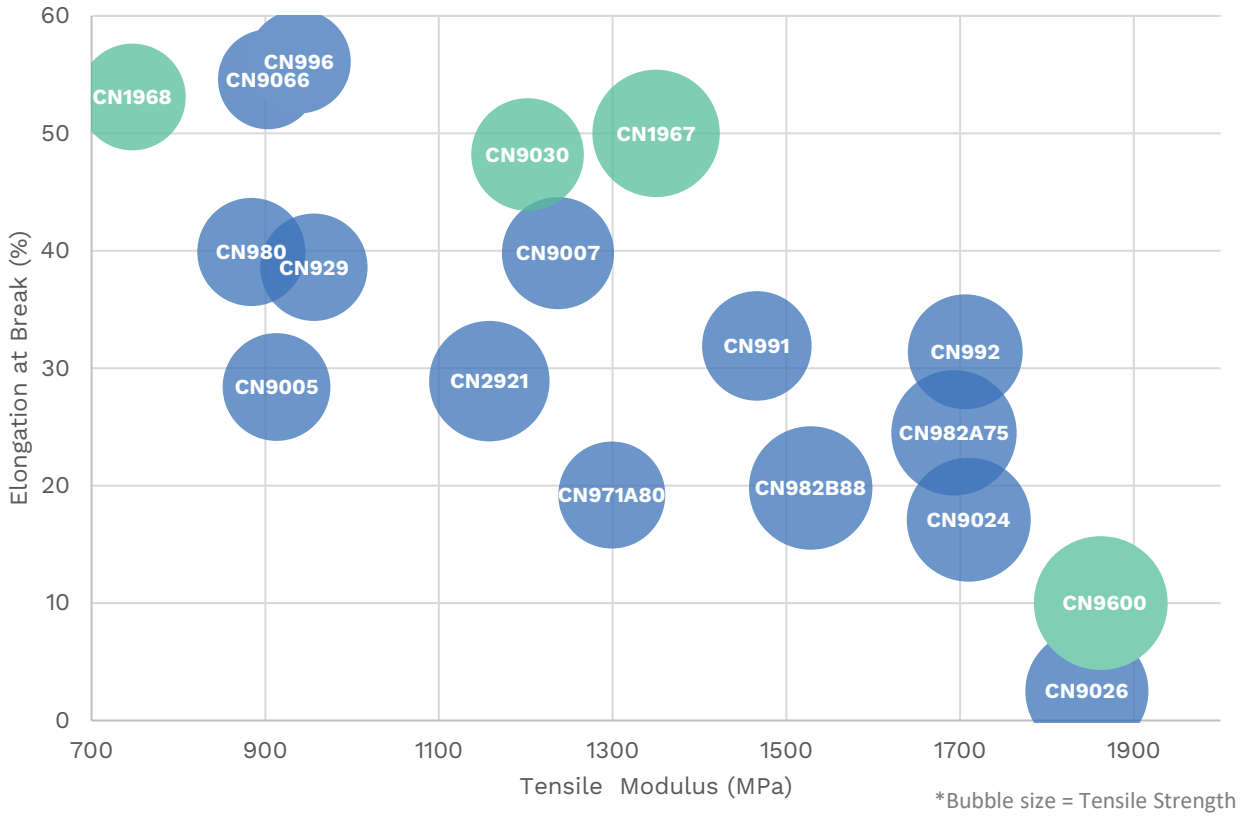
	CN991	CN1967	CN9030	CN9600	CN1968
<b>Functionality</b>	2	2	2	4	2
<b>Viscosity, 60°C (cP)</b>	660	8500	22000	28250	8500
<b>Tg, DSC (°C)</b>	34	78	42	46	75

#### 40% Sarbio® 5102 (IBOA) Dilution

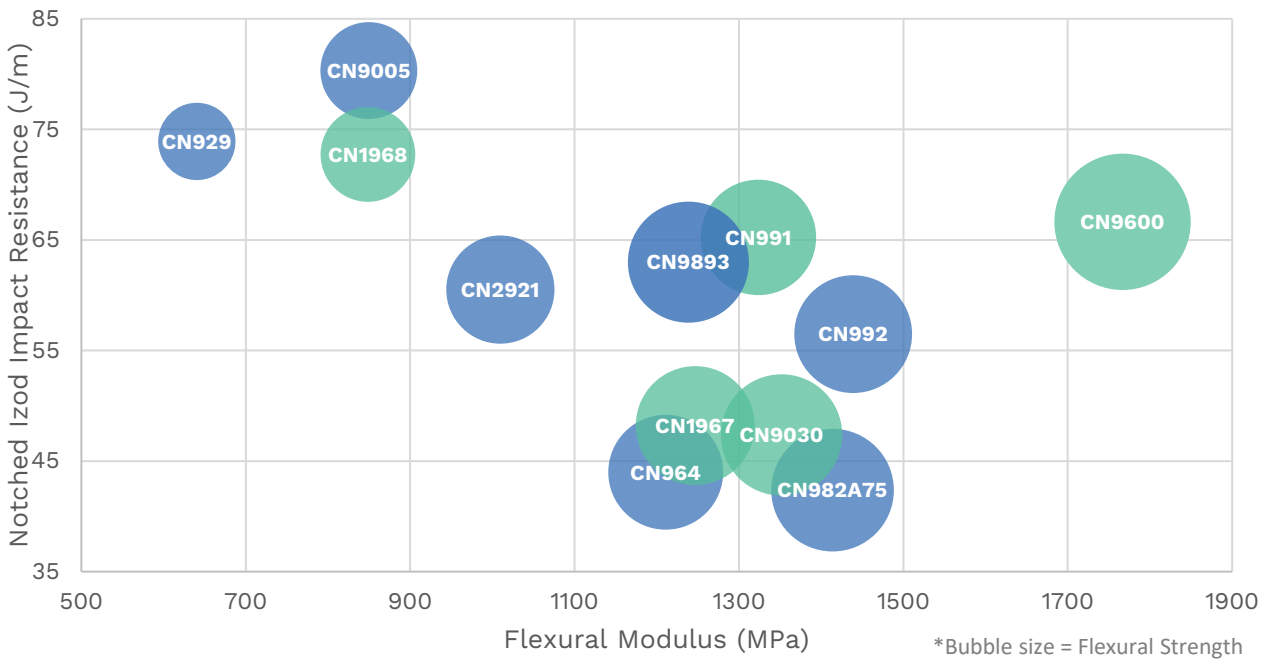
	CN991	CN1967	CN9030	CN9600	CN1968
<b>Viscosity, 25°C (cP)</b>	450	2600	4200	800	3400
<b>Tensile Modulus (MPa)</b>	1470	1400	1200	1862	800
<b>Tensile Strength (MPa)</b>	28	38	30	42	27
<b>Elongation (%)</b>	32	50	48	10	53
<b>Tensile Stress at Yield (MPa)</b>	-	28	26	-	17
<b>Tg, Peak Tan Delta (°C)</b>	59	85	70	69	68
<b>Impact Resistance (J/m)</b>	65	48	47	66	73
<b>Availability*</b>	Global	US	US & EU	US & EU	US
<b>Highlights</b>	Low yellowing	Water resistance	Water & chemical resistance	Soft	Transparent

\* Contact your local sales manager for product availability or replacements in other regions.

## TOUGH OLIGOMERS: TENSILE MODULUS VS. ELONGATION



## TOUGH OLIGOMERS: FLEXURAL MODULUS VS. IMPACT



To discover our full portfolio of UV 3D printing materials, download our literature

[sartomer.arkema.com](https://sartomer.arkema.com)

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