

Rigid oligomers

Example Thermoplastics

PLA

PEEK

PEKK

PI



Rigid UV oligomers are beneficial in formulations where high stiffness, dimensional stability, and durability are critical. Sartomer® oligomers enable the development of high-performance liquid resins with high tensile strength and glass transition temperatures, ensuring excellent rigidity, high-temperature resistance and long-term durability for demanding applications.

SELECTED OLIGOMERS FOR 3D PRINTING

Neat Properties

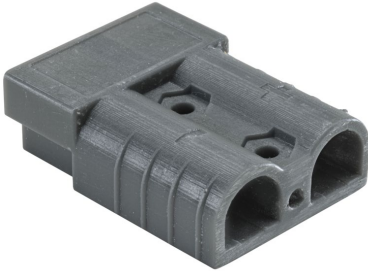
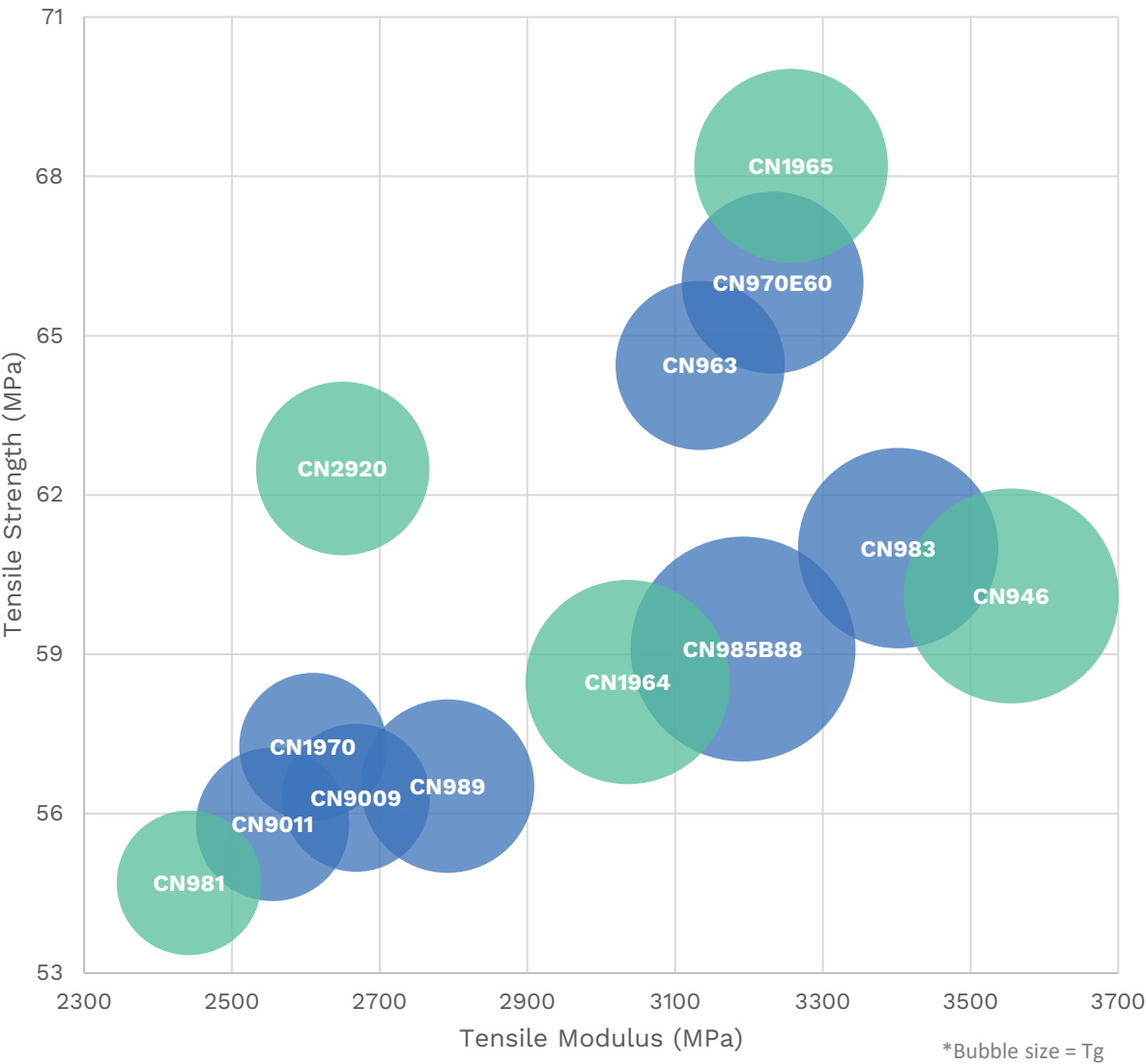
	CN946	CN1965	CN1964	CN2920	CN981
Functionality	2	2	2	2	2
Viscosity at 60°C (cP)	7000	1700	10000 (25°C)	25000	6190
Tg, DSC (°C)	171	79	130	59	22

40% Sarbio® 5102 (IBOA) Dilution

	CN946	CN1965	CN1964	CN2920	CN981
Viscosity at 25°C (cP)	1800	700	300	618	2700
Tensile Modulus (MPa)	3500	3300	3000	2650	2400
Tensile Strength (MPa)	60	68	59	63	55
Elongation (%)	2	3	3	5	15
Tg, Peak Tan Delta (°C)	150	122	135	98	68
Availability*	US	US & EU	Global	US	Global
Highlights	Heat & water resistance	Mechanical strength balance	Diluency	Water resistance, diluency	Tough

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

RIGID OLIGOMERS: MODULUS VS. STRENGTH



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

sartomer.arkema.com

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