

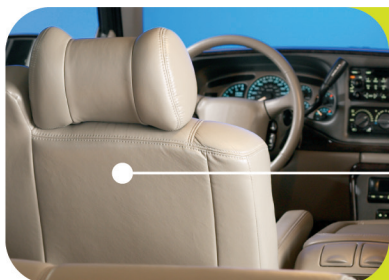
Forte is a polypropylene-based nanocomposite produced by Noble Polymers. It is one of the first commercialization of nanocomposites in the automotive industry and can be used in a variety of applications replacing talc-filled, glass-filled or virgin polypropylene.

Properties	Unit	ASTM	4CPP093	12HPP093	18CPP091	35CPP091
Specific gravity		D792	0.92	0.926	0.928	0.928
Flexural modulus, tangent	ksi	D790	230	371	260	241
Tensile strength, yield	psi	D638	3,967	5,853	3,148	3,785
Tensile elongation, break	%	D638	131.5	13.6	22.2	16.8
Notched izod impact at 23 °C	ft-lb	D256	1.18	1.34	1.13	1.1
Melt flow 230 °C, 2.16 kg	g/10 min	D1238	4	10.4	16.6	30.2
Linear shrinkage	in/in	D955	0.0190	0.0180	0.0140	0.0140
Heat deflection, 66 psi	°F	D648	206.6	246.2	197.6	237.2
Heat deflection, 264 psi	°F	D648	127.4	141.8	122.0	136.4

Injection Molding Conditions	
Barrel temperatures	375 - 425 °F
Water temperatures	80 - 130 °F

NOTE: While this information is presented in good faith and believed to be accurate, Noble Polymers, nor its parent company does not guarantee satisfactory results from reliance upon such information and disclaims all liability for any loss or damage arising out of its use.

The above information gives typical properties only. Product specifications may be obtained upon request. Final determination of the suitability of any information or material for the use contemplated, the manner of use, and whether there is any infringement of patents is the sole responsibility of the user.



At Noble Polymers, we build compounds that provide innovative solutions to engineering problems. We build relationships that solve many of the common problems customers have with suppliers. We want to work with you to create a solution that makes sense for both your application and your bottom line.



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