

# BASF Material Portfolio for Powder Bed Fusion



We create chemistry

	Ultrasint					Adsint				
	PA6	PA6 MF	PA6 FR	PA6 LM	PP	PA12	PA11	PA11 GB 30	PA11 CF	TPU 90 flex
Tensile Strength / MPa	61/54*	91/62*	56/41*	73/44*	29	41	50	43	66	10
Young's Modulus / GPa	3.5/1.6*	6.2/3.3*	4.8/2.5*	4.9/1.5*	1.4	1.3	1.6	2.0	4.0	
Elongation at break / %	2/51*	2/7*	1/3*	3/17*	50	20	45	9	9	250
Charpy impact strength, unnotched / kJ/m <sup>2</sup>	7/13*	13/28*	5/7*	18/52*	22	53	150	112	68	
HDT A / °C	98	121	113	98	56	89	55	64	129	
HDT B / °C	194	209	207	183	71	158	150	180		
Shore A hardness										90
Available color(s)	natural, black**	black	black	black	natural	natural	natural**, black	natural	black	natural, black
Special properties	strength, tightness	in-particle filler	UL94 V-2 @ 0.8 mm	standard LS equipment	prototyping + beyond	known LS material	toughness	rigidity	strength with CF	rubber-like
Stiffness	***	*****	*****	***				***	*****	
Strength	*****	*****	***	***		***	***	***	*****	
Ductility	***				*****	***	*****			*****
Toughness		***		*****		*****	*****	*****	***	
Temperature resistance	***	*****	*****	*****					***	

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Typical, preliminary values. All values shown are measured in x-direction. V0.3 03/2019

\*) dry/conditioned \*\*) technical data shown here is based on this color