



	DuraForm® TPU	DuraForm Flex	DuraForm EX / DuraForm ProX EX (BLK & NAT)	DuraForm PA / DuraForm ProX PA	DuraForm GF / DuraForm ProX GF	DuraForm HST / DuraForm ProX HST	CastForm PS	DuraForm FR1200 / DuraForm ProX FR1200	DuraForm ProX AF+
Base Material	Thermoplastic Polyurethane	Thermoplastic Elastomer	Nylon/PA11	Nylon/PA12	Nylon/PA12	Nylon/PA12	Polystyrene	Nylon/PA12	Nylon/PA12
Stiff / rigid					••••	••••			••••
Non-rigid / durable-tough			••••	•••				• • •	
Elastomeric / rubber-like	••••	••••							
High-temperature resistance					• • •	•••			••••
High elongation	••••	••••	••••	•••					
High-impact strength			••••	••••		• • •			•••
Accuracy	•••	•••	• • •	••••	••••	•••	••••	•••	••••
Surface finish	•••	•••	••••	••••	• • •	•••	•••	•••	••••
Color	White	White	Black or White	White	Pale grey	Pale grey	White	White	Metallic grey

RECOMMENDED APPLICATIONS										
Production parts	•••	••••	••••	••••	••••	••••		••••	••••	
Snap fits / living hinges			••••	••••						
Automotive design			••••	••••	••••	••••			••••	
Aerospace parts and ducting			••••	••••	••••	••••		••••	••••	
Fire retardant production parts								••••		
Medical applications				••••						
Jigs / fixtures / tools			•••	••••	••••	••••			••••	
Investment casting patterns							••••			
Gaskets, seals and hoses	••••	••••								
Footwear	••••	••••								

Ranking: Ratings are relative to other materials presented.

^{*} Please see the product datasheet for more detailed information.

	Sintered Part Density (g/cm³)	Flexural Modulus (MPa)	Flexural Strength (MPa)	Tensile Modulus (MPa)	Tensile Strength (MPa)	Elongation at Break (%)	Impact Strength (J/m) Notched Izod Unnotched Izod	Heat Deflection Temperature (°C) @ 0.45 MPa @ 1.82 MPa	Flammability	Hardness
	ASTM 792	ASTM D 790	ASTM D 790	ASTM D 638	ASTM D 638	ASTM D 638	ASTM D 256	ASTM D 648	UL 94	ASTM D2240
sPro [™] Compatible Material Prope	erties									
DuraForm TPU ¹	0.78	6.0	-	5.3	2.0	220 %	-	-	-	59A
DuraForm Flex ¹	-	5.9	48	5.9	1.8	110 %	1	-	-	45-75A
DuraForm EX (Black and Natural)	1.01	1310	46	1517	48	47 %	74 1486	188 48	НВ	74D
DuraForm PA	1.03	1387	48	1586	43	14 %	32 336	180 95	НВ	73D
DuraForm GF	1.49	3106	37	4068	26	1.4 %	41 123	179 134	НВ	77D
DuraForm HST	1.20	4400-4550	83-89	5475-5725	48-51	4.5 %	37.4 310	184 179	НВ	75D
CastForm PS	0.86	-	-	1604	2.84	-	< 11 14		-	-
DuraForm FR1200*	1.02	1770	62	2040	41	5.9 %	25 233	180 94	НВ	76D

¹ Material compatible only with sPro 60 HD-HS.

ProX® Compatible Material Properties										
DuraForm ProX PA	0.95	1650	63	1770	47	22 %	45 644	182 97	НВ	73D
DuraForm ProX GF	1.33	3120	60	3720	45	2.8 %	48 207	180 129	НВ	73D
DuraForm ProX HST	1.12	3430	75	4123	44	4.3 %	55 307	183 171	НВ	73D
DuraForm ProX EX BLK	1.02	1360	51	1570	43	60 %²	75 3336	193 57	НВ	76D
DuraForm ProX EX NAT	1.02	1436	56	1590	51	61 %²	91 Did not break	192 56	НВ	77D
DuraForm ProX AF+	1.31	3710	64	4340	37	3 %	54 255	182 174	НВ	78D
DuraForm ProX FR1200	1.03	1720	61	2010	45	8 %	24 278	180 94	НВ	77D

² XY orientation at 5mm/min

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Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, or with end use.

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