

한국 독점 대리점

SHINITE TPEE

Properties				4000DH	DU4000	DH550H	5525DH	DU5525	DH6000	DU6300	DH600H	DH7200
Mechanical properties		Unit	Test Method									
Izod Impact(Notched)	23°C	Kg-cm/cm	ASTM D256	NOT BREAK	NOT BREAK	NOT BREAK	NOT BREAK	NOT BREAK	NOT BREAK	NOT BREAK	NOT BREAK	22
	-40°C	Kg-cm/cm		NOT BREAK	NOT BREAK	(1/5)BREA	NOT BREAK	-	23	-	10	8
Tensile modulus		Kg/cm ²	ASTM D638, Type I	870	850	2300	2300	2600	4600	4500	4150	8200
Nominal Tensile Strain at Break		%	ASTM D638, Type IV	1000	1000	750	838	794	676	662	637	632
Tensile Stress at Yield		Kg/cm ²	ASTM D638, Type IV	-	-	150	-	-	-	-	220	300
Tensile Strength		Kg/cm ²	ASTM D638, Type IV	280	340	440	410	440	520	535	560	520
Flexural Strength		Kg/cm ²	ASTM D790	60	55	135	135	140	230	224	200	310
Flexural Modulus		Kg/cm ²	ASTM D790	1000	890	2000	2400	2700	4700	4600	3400	4150
Hardness (Shore D), 15sec		-	ASTM D2240	39	38.5	52	53	54	62	62	61	64
Thermal properties												
Heat Deflection Temperature	66psi	°C	ASTM D648	55	73	99	112	114	125	129	115	135
Flammability		-	UL94	HB	HB	HB	HB	HB	HB	HB	HB	HB
Melting Point		°C	DSC	180	197	201	204	215	215	219	211	219
MFR	2.16Kg	g/10min	ASTM D1238	18 (220°C)	16 (220°C)	14 (230°C)	14 (230°C)	16 (230°C)	20 (230°C)	22 (230°C)	11 (230°C)	26 (240°C)
Other properties												
Specific Gravity		-	ASTM D792	1.14	1.13	1.20	1.20	1.20	1.24	1.24	1.25	1.26
Water Absorption		%	ASTM D570	0.67	0.70	0.45	0.50	0.50	0.31	0.31	0.31	0.19
Mold Shrinkage		%	ASTM D955	0.8-1.8	-	0.9-1.9	1.2-2.2	-	-	-	1.2-1.7	1.2-1.9
Volume Resistivity		Ω-CM	ASTM D257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹¹	10 ¹¹	10 ¹¹	10 ¹³
CS-17 Taber abrasion	Load 500g	mg/10 ³ cycle	ASTM D1044	3.8	-	5.3	4.3	-	-	-	5.4	6.4
Injection Molding												
INJECTION MACHINE		OZ		3	3	3	3	3	3	3	3	3
DRYING				2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)	2~4 HR × 100~120 (°C)
BARREL TEMPERATURE		°C										
	REAR			220	220	240	240	240	240	240	240	240
	MIDDLE			210	210	235	235	235	235	235	235	235
	FRONT			205	205	220	220	220	220	220	220	220
	NOZZLE			200	200	220	220	220	220	220	220	220
MOLD TEMPERATURE		°C		65	65	65	65	65	65	65	65	65
INJECTION PRESSURE		kg/cm ²		600-1000	600-1000	600-1000	600-1000	600-1000	600-1000	600-1000	600-1000	600-1000
INJECTION SPEED		-		FAST	FAST	FAST	FAST	FAST	FAST	FAST	FAST	FAST

Data listed above is for reference. The actual quality of certain batch is varied within a specific range, as indicated in each COA.

This grade complies with RoHS & SVHC regulation.