

Screws for plastic materials and light metal

There are many different screws for the application areas mentioned above. On the following pages we are going to present a selection of these.

Plastite®

Thread rolling screw for plastic materials.

Table 135 Characteristics and advantages

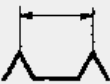


PLASTITE's characteristics		Advantages
	Large pitch of thread.	A. Large shearing area in plastics. B. Big difference between thread rolling torque and breaking torque. C. Fast assembled.
	Large thread height.	A. Large contact between thread and material. B. Small affection by hole variations.
	Unique shape.	A. Low thread rolling torque. B. Locking due to the elasticity of the material.

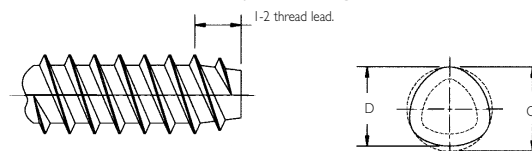
Table 75 Thread tolerances and hole diameters for Plastite 48-2 and Plastite 60-I

Dimension No. threads per inch	Thread tolerance				Target values for hole- diameters ¹
	C		D		
	min.	max.	min.	max.	
2-28	2,18	2,34	2,11	2,26	1,93-2,03
4-20	3,07	3,23	2,97	3,12	2,54-2,69
6-19	3,58	3,73	3,48	3,63	3,10-3,25
8-16	4,05	4,70	4,39	4,55	3,78-4,01
10-14	5,23	5,38	5,13	5,28	4,44-4,70
12-11	5,82	5,97	5,69	5,84	4,95-5,23
14-10	6,86	7,01	6,65	6,81	5,69-6,10

¹ Lower limit for non-rigid plastics (Amide, Ethylene, Propylene etc.).

Upper limit for hard or medium hard thermoplastics (Acetal, Acryl, Carbonate, Polystyrene etc. and thermoset plastics like Amino, Ester, Pheno, Urethan).

Plastite 48-2 - 48° profile angle.



Plastite 60 - 60° profile angle.

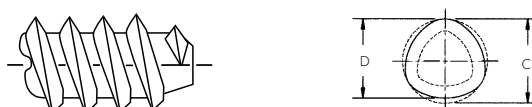


Table 76 Thread tolerances and hole diameters for Plastite 45

Thread mm	Thread tolerance				Target values for hole diameters ¹
	C		D		
	min.	max.	min.	max.	
2,5x1,4	2,41	2,53	2,37	2,49	1,85-2,05
3 x1,5	2,92	3,04	2,87	2,99	2,30-2,50
3,5x1,65	3,42	3,54	3,34	3,46	2,75-3,00
4 x1,75	3,89	4,04	3,79	3,94	3,20-3,45
5 x2,2	4,89	5,04	4,79	4,94	3,70-4,10
6 x2,5	5,89	6,04	5,78	5,93	4,70-5,10
8 x3	7,86	8,04	7,71	7,89	6,50-7,10

¹ Lower limit for non-rigid plastics (Amide, Ethylene, Propylene etc.).

Upper limit for hard or medium hard thermoplastics (Acetal, Acryl, Carbonate, Polystyrene etc. and thermoset plastics like Amino, Ester, Pheno, Urethan).

Plastite 45 - 45° profile angle and larger pitch of thread than Plastite 60. It is mainly meant for harder, so called structural, plastics.

