

## Reclaim: Recommended Xaloy® Screw and Barrel Solutions

Resin	Screw performance/design options			Base Material [Note 2]	Screw Cooling	Hardfacing options		Coating Options	Barrel Options	
	★★★	★★	★			★★★	★★		★★★	★★
ABS, vented	2-stage w/SB II	2-stage w/blister		4140 HT or SM59	Feed	X-830	X-183	CP-O	X-800	X-102
Acrylic	2-stage w/SB II			4140 HT or SM59	Feed	X-830	X-183	CP-O	X-800	X-102
HIPS	2-stage w/SB II	2-stage w/blister	2-stage	4140 HT or SM59	Feed	X-830	X-183	CP-O	X-800	X-102
Lexan® (PC), vented	2-stage w/SB II	2-stage w/blister	2-stage	4140 HT or SM59	Feed	X-830	X-183	CP-1	X-800	X-102
Nylon (PA, polyamide)	2-stage w/SB II			4140 HT or SM59	None	X-830	X-183	CP-O	X-800	X-102
PET	2-stage w/SB II			4140 HT or SM59	Feed	X-830	X-183	CP-1	X-800	X-102
PC, polycarbonate- see Lexan										
PE										
HDPE	2-stage w/SB II	2-stage w/blister	2-stage	4140 HT or SM59	Feed	X-830		CP-O	X-800	
LDPE	2-stage w/SB II	2-stage w/blister	2-stage	4140 HT or SM59	Feed	X-830	X-183	CP-O	X-800	X-102
LLDPE	2-stage w/SB II	2-stage w/blister	2-stage	4140 HT or SM59	Feed	X-830		CP-O	X-800	
MDPE	2-stage w/SB II	2-stage w/blister	2-stage	4140 HT or SM59	Feed	X-830	X-183	CP-O	X-800	X-102
Polyamide (see Nylon)										
PP w/mineral filler, ventec	2-stage w/SB II	EF w/ NM	2-stage	4140 HT or SM59	Feed	X-830	X-183	CP-1	X-800	X-102
PS (GPPS)	2-stage w/SB II	2-stage w/blister	2-stage	4140 HT or SM59	Feed	X-830	X-183	CP-O	X-800	X-102

Other materials      Please contact your Xaloy representative for recommendations

KEY:

Performance ratings

- ★★★ Premium performance, our best solution
- ★★ Excellent balance of performance and cost
- ★ Good performance at economical cost

EF = [Efficient™ Barrier Screw](#)

NM = [Nano™-Mixer](#)

SB = [StrataBlend® Mixer](#)

SB II = [StrataBlend® II Mixer](#)

SS = Single-stage screw

Coatings: CP-O = Chrome plating is optional

CP-1 = Chrome-plated, thickness 0.001" (25 µm)

CP-2 = Chrome-plated, thickness 0.002" (51 µm)

More hot links: [X-830](#), [X-183](#), [X-800](#), [X-102](#), [X-306](#)

NOTES:

1. Fusion™ Screws must be 24:1 L/D or longer.
2. Any screw of 40 mm (1.575") diameter or smaller is made of CPM-9V.
3. When the X-830 screw flight hardsurfacing is used, then the X-800 barrel liner must be used.

