

3D Printing Press Brake Dies

CHAT-0046 / REV EXPORT-03 / 2026.08.28

A conversation-specific public summary of 3d printing press brake dies, distilled from the supplied export. The detailed excerpts remain available in the released note file.

STATUS	RECOVERED / SPECIFIC NOTE
CLASSIFICATION	SYS
MATERIAL	CHAT EXPORT / BUILD & TOOLS
DISPOSITION	PUBLIC CONVERSATION EXCERPTS / REDACTED
CATEGORY	Build & Tools
RECORD TYPE	build-thread

TECHNICAL NOTES

Conversation-specific knowledge extracted from the 3d printing press brake dies discussion.

EDITORIAL NOTE

The reply changes its preferred tooling material without comparative test data. No validated forming load, tooling limit or trial result survives here, so the shortlist is not a die rating or a proven material ranking.

CONVERSATION / QUESTION AND CONTEXT

I have all kinds of material I can 3d print with. What would be a good material to print press break does with

CONVERSATION / EXTRACTED GUIDANCE

1. *PA6-CF with 20% carbon fiber is one of the better materials you could try for printed press-brake tooling. For short 3-inch tooling sections, I'd choose it over PLA, PETG, ASA, and probably standard PC for most experimental forming.
2. *Easiest -> hardest: ASA -> PP -> PA6-CF20 -> PC
3. *PC is excellent mechanically, but it's the one I'd least want to print a big, nearly-solid die from unless there was a reason-it wants high temperatures and is much more prone to warping/internal stress.
4. PC-CF - my pick for printed press-brake tooling
5. PA6-CF20 - potentially excellent strength/toughness, but moisture and dimensional changes are more annoying
6. Regular PC - very tough, but significantly more prone to warping

7. ASA - easiest inexpensive prototype tooling
8. PP - specialized compliant forming dies rather than rigid tooling

SPECIFICATION

SOURCE	Supplied ChatGPT export
CATEGORY	Build & Tools
CONVERSATION	8 user turns / 8 assistant turns
ATTACHMENTS	8 references detected
PUBLIC DETAIL	Extracted knowledge + excerpts

DEVELOPMENT HISTORY

2026.08.28 / EXPORT-04

Matched to the supplied export; key guidance is surfaced separately and the raw transcript remains unpublished.

RELEASED MATERIAL / SOURCE LINKS

CHAT-0046-public-note.txt

PUBLIC-SAFE CONVERSATION NOTE / UNIQUE FILE

<https://u225x.com/downloads/chat-records/CHAT-0046-public-note.txt>

RETURN TO THE LIVING RECORD

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This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/CHAT-0046>