

# OPTIFORM<sup>®</sup> MATERIAL SELECTOR GUIDE

## ➤ TECHNICAL DATA

Product	Color	Service Temperature		Thermal Conductivity (k)		Density		Flexural Toughness (ASTM D790)		Typical Polished Finish (Ra)		Coef. Thermal Expansion	
		°F	°C	BTU/hr-ft-°F	W/m.K	lb/ft <sup>3</sup>	kg/m <sup>3</sup>	Psi	kPa	μin	μm	10-6 in/in°F	10-6 m/m/°C
<b>F2X</b>	White	356	180	0,1	0,17	44	720	9,8	67,3	67	1,7	36	66
<b>SLX</b>	Pink	356	180	0,09	0,16	49	800	10,9	75,1	35	0,9	30	55
<b>FXT</b>	Green	356	180	0,09	0,17	50	820	10,8	74,2	39	1,0	32	59
<b>B2X</b>	Blue	356	180	0,11	0,18	45	740	11,9	82,1	43	1,1	33	60

## ➤ MATERIAL PROPERTIES

		F2X	SLX	FXT	B2X
<b>COST</b>	Direct cost	2	3	4	5
<b>MACHINABILITY</b>	Dust Free	5	5	5	5
	Smoothness from machining	3	4	4	5
	Polishing	3	5	4	4
Moldmaker benefits	Insert & Threading	5	5	5	5
	Material distribution	4	4	4	5
<b>THERMOFORMING APPLICATION</b>	Resistance to abuse	4	4	4	5
	Multilayer	2	3	5	3
	Deep draw	3	4	3	5
Thermoformer benefits	Part Clarity	3	4	4	5
	Plug Durability	4	4	4	5
<b>SUITABLE SUBSTITUTION</b>	Syntac <sup>®</sup> / Hytac <sup>®</sup>	W - WF - S350	FLX	FLXT - WFT	B1X - XTL

## ➤ POLYMERS

	F2X	SLX	FXT	B2X
PP	●	●	●	●
APET	●	●	●	●
CPET	●	●	●	●
RPET	●	●	●	●
PETG	●	●	●	●
PLA	●	●	●	●
HDPE	●	●	●	●
HIPS	●	●	●	●
OPS	●	●	●	●
PS	●	●	●	●
PVC	●	●	●	●
MULTILAYER	●	●	●	●

- Preferred
- Accepted
- Not Recommended

Machining guidelines on youtube:

