

Help me choose

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Help our customers decide which material is best for their application

	PA12	PA11	PA12 GB	РР	BASF TPU	LZ TPU	Vestosint	CB PA 12
Stiffness				•		•		
Impact resistance	•			•				•
Elongation	•			•		٠		•
Dimensional capability				•	•	•	•	•
Level of detail				•	•	•	•	
Flat part		•			•	•		
Temperature resistance	•			•		٠	•	•
Chemical resistance					•	•		
Low moisture absorption						•	•	
Lightweight			•					



- Good
- e Fair

Not recommended



HOW TO CHOOSE RIGID POLYMERS

	HP 3D HR PA12	HP 3D HR PA11	HP 3D HR PA12 GB	HP 3D HR PP
MATERIAL PROPERTIES	 Robust & strong Good balance performance-Price Good balance between tensile strength and elongation 	 Ductile, flexible and with high strength Higher Elongation & Impact Raw material from vegetable castor oil Better small, features 	 High stiffness Good dimensional stability – les warpage Higher HDT 	 Best chemical resistance Low moisture absorption Weldable Flexibility is important but not essential
WORKFLOW	Between 30-40h	of cooling, depending on machine	e and material	60h cooling
REUSABILITY (up to)	80%	70%	70%	90%
POST PROCESSING	Coating, dying 8	chemical etching	-	BASF UV precoating
COMPATIBILITY	4200 & 5200	4200 & 5200	4200 & 5200	5200

HOW TO CHOOSE ELASTOMERIC MATERIALS

	BASF Ultrasint TPU01	ESTANE 3D TPU M95A	
MATERIAL PROPERTIES	 Best balance on rebound resilience and compression set Better color uniformity Better repeatability 	 Harder TPU – 90 shore A & higher tear strength Print half buckets to improve degradation and repeatability Better performance at high temperatures 	
WORKFLOW	Warm unpack	Easy to unpack and clean	
REUSABILITY (up to)	80%	80%	
POST PROCESSING	Chemical etching, Spray coating	Chemical etching	
COMPATIBILITY	5200	4200	