



## **CHOOSING THE RIGHT TPE** The 7 Essential Considerations



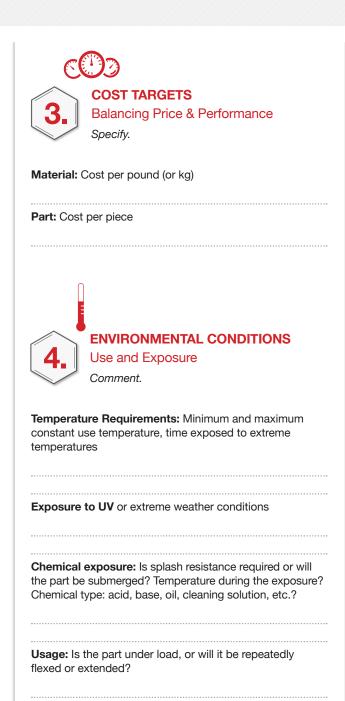


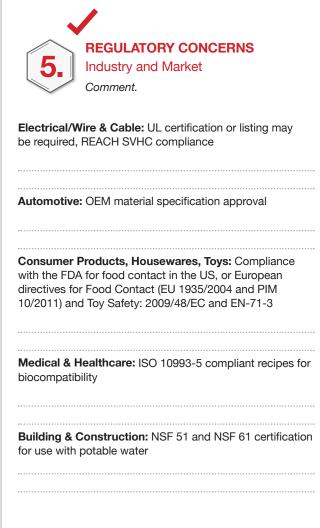


## INTENT FOR TPE SELECTION

New Grade or Material Replacement Specify.

Current Material Used:
Why the change?
Any Special Requirements?
MANUFACTURING PROCESS Formulating for Processability Check which apply.  Injection Molding  Extrusion  Blow-Molding
Overmolding and ac extrusion appoint substrate.
For overmolding and co-extrusion, specifiy substrate:









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Comments:







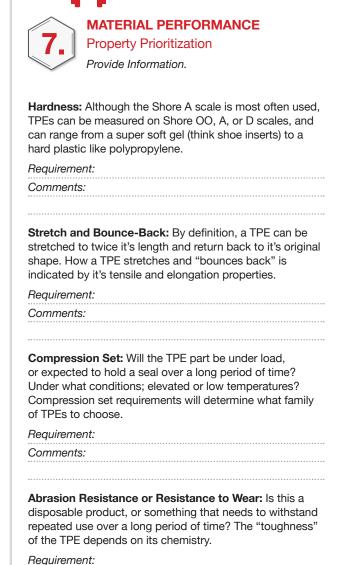
## **AESTHETICS & SURFACE APPEARANCE**

**Determine Look & Feel** 

Circle which apply.

Surface Feel/Haptics
☐ High surface ☐ Dry feel or ☐ Silky-smooth friction or "grippy" silicone-like or lubricious to the touch
Surface Finish
☐ Glossy (able to mimic high gloss levels of PVC) ☐ Matte (low gloss, rubber-like look & feel)
Color

☐ Clear ☐ Translucent ☐ Opaque ☐ Pre-colored



Tear Strength or Puncture Resistance: Consider how the product will be used, for example, for baby products, you'll want a TPE with resistance to biting and tear. Tear strength can be measured, and TPEs can be optimized for maximum tear and puncture resistance.

••••••	uirement: nments:
durir requ	istance to Bending: Will the TPE be bent or flexed ng use? This may translate into a flexural modulus irement, which measures the TPE's tendency to bend.
	uirement: nments:
molo in a poly	esion to Other Materials: Will the TPE be over- ded onto a rigid plastic like polycarbonate, like power tool handle? Will it be co-extruded with propylene to create a hard/soft seal? The substrate erial is important when selecting the appropriate TPE.
Requ	uirement:
Com	nments:
char	cial Requirements: Consider any special acteristics or attributes that may be needed for the . Some examples:
•	Energy absorption for acoustic dampening Recycled content Mineral reinforced Anti-microbial
Requ	uirement:
	nments:

