

PROCESSING GUIDE FOR EXTRUSION OF APEX™ PVC JACKETING COMPOUNDS

	ALEX TOOMSTELLING COMM CONDO	
EQUIPMENT & CONDITIONS	SUGGESTIONS	
Compound Drying	Typically not required.160°F for 4 hours if desired.	
Color Concentrate	PVC-based color concentrates.	
Machine Type	Typical PVC extrusion equipment. Chrome plated screw and bimetallic barrel.	
Screw Design	A) Metering type with shallow flights and long metering section. Metering Section 50% Transition Section 25% Feed Section 25%	
Compression Ratio	2.75:1 target (2.5:1 to 3.0:1 range)	
L/D Ratio	24:1 target (20:1 to 30:1 range)	
Screen Packs	20/40/60 typical (up to 80 mesh OK)	
Screw RPM	30 RPM minimum (choose extruder size to accommodate this)	
Screw Cooling	Not Recommended.	
Water Bath	Cold Water; 40°F - 60°F	
Tooling	Cross-head: Low inventory cross-heads.	
	Die Design: Matched tip and die angles, fairly tight together for optimum die pressure.	
	Tubing Die: DDR 2.0 to 5.0:1 range.	



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Machine Temperatures

Hardness Range	Typical Barrel Settings	Melt Temperature Range
Below Shore A70	255°F - 310°F	330°F - 340°F
Shore A70 - 65C	270°F - 350°F	345°F - 360°F
Shore C65 - 70	320°F - 365°F	365°F - 375°F
Shore C71 - 80	330°F - 375°F	375°F - 380°F

^{**}Melt temperature should be measured using a pyrometer on the material exiting the cross-head.

Purging

If necessary, use HD polyethylene.

Regrind

Recyclable; mix up to 20% regrind with virgin.

Additional Considerations

Care must be taken to avoid excessive temperatures or delays during extrusion; material should not sit for more than 15 minutes under any circumstances.

Never leave in extruder at elevated temperature without purging.

Never process with an actual melt temperature > 400°F.

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