Geon™ Vinyl Dry Blend E0100

Rigid Polyvinyl Chloride

Key Characteristics

Product Description			
Powder, cleaning purge for twin screw PVC extruders.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Purging Compound		
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties [1]

Additional Information
APPLICATIONS: During long extrusion runs, some extrusion compounds can thermally degrade and create build-ups inside the extruder and the tooling. Eventually, this degradation can lead to die lines and yellow streaks on the profile surface. If the compound degradation is moderate, the GEON® E0100 cleaning purge compound can be used to clean out build-ups and remove the compound degradation inside the extruder and the die. By using a cleaning purge compound, customers can avoid the time consuming process of removing the die, dismantling it and cleaning it mechanically.E0100 is optimized to purge twin screw extrusion lines. E0100 has superior metal release characteristics and a much better thermal stability than conventional extrusion profile compounds. E0100 will easily and effectively push out conventional extrusion compounds from most dies. Avoid cross-contaminationCare must be taken to insure that purge compound scrap is not mixed with regular profile regrind and used for profile extrusion. Adding purge to regrind would cause the resulting profiles to be un-fused and brittle. Other GEON Purge Compounds Shutdown Purge If you plan to shut down and leave the purge compound in the die, you should consider purging the extruder with E0100 cleaning purge first, followed by the E0916 shutdown purge once the regular extrusion compound has been pushed out of the die. The E0100 cleaning purge has a stiff melt and will push the regular extrusion compound out of the die quicker than E0916. However, the E0916 shutdown purge has the best metal release, the highest thermal stability and is more crumbly at room temperature than the E0100 cleaning purge. (See the E0916 data sheet for more details). Single Screw Extruders Due to its high lubricity and superior metal release characteristics, E0100 may not convey and process well on single screw extruders. The GEON® LP300 pellet purge is especially formulated to purge single screw extruders and dies (see the LP300 data sheet for more details). _____ PROCESSING METHOD: Shut downStop feeding the regular profile compound to extruder. If necessary, remove the regular compound from the extruder hopper and pour purge compound down the throat of the extruder. Do not change the extrusion conditions and keep the die on the extruder.Continue to feed purge compound and to run the extruder main screws until the cleaning purge has completely displaced the regular compound from the extruder and the die. The scrubbing action of the cleaning purge compound can be increase by progressively lowering the barrel and the screw oil settings. Make sure that the motor current and the backpressure do not become excessive. The physical appearance of the purge compound as it exits the die (color difference and/or crumbly texture) will indicate that the purge cycle is complete and the extruder and the screws are clean. Stop feeding the purge dry blend to the throat of the extruder. Remove the die. Run the main screws until they are empty. At this point, you can:a) return to the normal extrusion conditions and to the normal extrusion compound and resume production or, b) dismantle and clean the die thoroughly before storing it or, c) you can store the die with the purge compound in it. If you are not planning to take the die apart and clean it before the next run, it is very important that all the regular vinyl compound be displaced from the die before shutting down. Any regular compound left in the die would likely degrade and potentially cause corrosion damage to the die during restarting. Re-StartWhen starting up with a die full of purge, heat the barrel, the screws and the die to the normal extrusion temperature. When the set points have been reached, feed normal extrusion compound and operate the main screws at low RPM until the regular compound has pushed out the purge compound.Resume regular extrusion.

Notes

[1] Typical values are not to be construed as specifications.

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