# Geon™ Vinyl Rigid Extrusion LP300

## Rigid Polyvinyl Chloride

## Key Characteristics

| Product Description | | | |
|---|---|---|---|
| Pellet, cleaning purge for single and twin screw PVC extruders. | | | |
| **General** | | | |
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Uses | • Purging Compound | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | | |

## Technical Properties [1]

| Additional Information |
|---|
| APPLICATIONS: During long extrusion runs, some extrusion compounds can thermally degrade and create build-ups inside tooling. Eventually, this degradation can lead to die lines and to yellow streaks on the profile surface. If the compound degradation is moderate, the GEON® LP300 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. LP300 is optimized to purge both single screw and twin screw extrusion lines. LP300 has superior metal release characteristics and much better thermal stability than convention extrusion profile compounds. LP300 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 If you are using twin screw extruders, you should consider evaluating the GEON E0100 cleaning purge and the GEON 0916 shutdown purge compounds. These two purge compounds are in powder form and are especially formulated for twin screw extruders. See the GEON E0100 and E0916 data sheets for more details. _____ PROCESSING METHOD: Shut downRemove 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 screw 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 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. Stop feeding the purge dry blend to the throat of the extruder. At this point, you can:a) return to the normal extrusion conditions and to the normal extrusion compound and resume production or, b) remove, dismantle and clean the die thoroughly before storing it and run the screw until it is empty 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.

## CONTACT INFORMATION

**Americas**

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

**Asia**

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

**Europe**

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314

*Beyond Polymers.*

*Better Business Solutions.* SM

www.polyone.com

**PolyOne Americas**
33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

**PolyOne Asia**
No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

**PolyOne Europe**
6 Giällewee
+352 269 050 35