Geon™ SF Compounds
Superior flow molding compounds expand the processing window of rigid vinyl

Product Description
Geon™ SF molding compounds utilize patent pending technology to expand rigid vinyl’s processing window, delivering superior flow and improved thermal stability compared to current injection molding formulations. Geon™ SF compounds allow injection molders to select vinyl for indoor or outdoor applications previously requiring more expensive engineered thermoplastics to produce large or thin-walled parts. Key features include:

- 25% improvement in melt flow
- 75% improvement in thermal stability during molding
- Reduced shear burning during molding

Value to Manufacturers
- Reduced production costs by replacing higher cost engineered polymers like FR ABS, PC+ABS, PC, PPE+PS and PBT
- Improved production efficiencies for existing applications through reduced scrap rate and/or cycle time where vinyl processing is marginal
- Create differentiated products with materials that can fill large or thin-walled tools

Markets and Applications
- Shake siding
- Railing spindles
- Laundry appliance housings
- Other large or thin-walled applications
The Geon™ SF Advantage
Geon™ SF rigid vinyl molding compounds show improved flow and thermal stability compared to current formulations, resulting in easier processing and expanding the range of applications in which rigid vinyl can be used.

Spiral Flow Comparison

Geon™ SF

Rigid Vinyl*

Dynamic Flow Comparison

30 35 40 45 50

spiral flow (inches)

Thermal Stability Comparison

Geon™ SF

Rigid Vinyl*

Dynamic Thermal Stability

20 35 50 65 80

dynamic thermal stability (minutes)

*Typical values for rigid vinyl injection molding compounds

Geon™ SF expands the applications where rigid vinyl can cost effectively replace engineered thermoplastics.

CONTACT INFORMATION

Americas
U.S. – Avon Lake, Ohio
+1 440 930 1000

Asia
China – Dongguan
+ 86 (0) 769 8587 8800

Europe
Belgium – Assesse
+32 (0) 83 660 211

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

PolyOne Asia
Guoshoujing Road No. 88
Z.J Hi-Tech Park, Pudong
Shanghai, 201203, China
+86 (0) 21 5080 1188

PolyOne Europe
6 Giällewee
Fischbach, Luxembourg L-9749
+32 (0) 83 660 211