



**POLYMER DYNAMIX
MATERIAL SAFETY DATA SHEET**

Product Name: DynaSil FR160

Section 1: Chemical Product and Company Identification	
Polymer Dynamix, L.L.C. 238 St. Nicholas Ave. South Plainfield, NJ 07080	Phone: 908-668-0300 Fax: 908-791-9991
Generic Description:	Flame Retardant Synergist PP Masterbatch
Physical Form:	Solid
Color:	White
Odor:	Slight
NFPA:	Health-0 Flammability-1 Reactivity-0

Section 2: Chemical and Physical Properties	
Formula:	Polysiloxane and silicon dioxide dispersed in a polypropylene matrix
Toxic and Hazardous Ingredients:	None
Specific Gravity @ 25°C:	1.05-1.10 g/cc
Viscosity:	Not Applicable
Melting Point:	Not Applicable
Boiling Point:	Not Applicable
Vapor Pressure @ 25°C:	Negligible
Vapor Density:	Not Applicable
Solubility in Water:	Negligible
pH:	Not Applicable
Volatile content:	Negligible

Section 3: Fire and Explosion Data	
Flash Point (Closed Cup):	Not Applicable – Solid
Auto ignition Temperature:	Not Determined
Flammability limits in air:	Not Determined
Extinguishing Media:	On large fires use a dry chemical, foam or water spray. On small fires use a carbon dioxide, dry chemical or water spray.
Continued on Next Page	

Section 3: Fire and Explosion Data (cont'd)	
Fire Fighting Procedures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	See hazardous decomposition section.

Section 4: Hazards Identification	
Emergency Overview:	Can cause damage to the following specific organ(s) and system(s): upper respiratory tract, skin eyes.
Routes of Entry:	For hot material: Skin contact, eye contact inhalation
<u>Potential Acute Health Effects:</u>	
<i>Eyes:</i>	Slightly hazardous in case of contact (irritant). Heated Polymer: eye contact can cause serious thermal burns. Vapors formed when polymer is heated may irritate the eye.
<i>Skin:</i>	Nothing significant. Heated polymer: skin contact can cause serious thermal burns.
<i>Inhalation:</i>	Negligible at room temperature. Heated polymer: irritating vapors can be formed when polymer is processed at high temperatures.
<i>Ingestion:</i>	No effects are expected for ingestion of small amounts.
<u>Potential Long Term Health Effects:</u>	
<i>Skin:</i>	No known applicable information
<i>Inhalation:</i>	No known applicable information
<i>Oral:</i>	No known applicable information
<u>Signs and Symptoms of Overexposure</u>	
No known applicable information	
<u>Medical Information Aggravated by Exposure</u>	
No known applicable information	

Section 5: First Aid Measures	
Eye Contact:	Immediately flush with water.
Skin Contact:	Cold polymer – no first aid required. Heat polymer – for serious burns get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water.
Inhalation:	Allow victim to rest in well-ventilated area.
Oral:	No first aid should be needed.
Comments:	Treatment should be symptomatic.

Section 6: Accidental Release Measures	
Small Spill and Leak:	Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.
Large Spill and Leak:	Use a shovel to put material into a convenient waste disposal container.

Section 7: Handling and Storage	
Handling:	Handling of pellets may form nuisance dust. Protect personnel.
Storage:	Keep container dry. Keep in cool place Ground all equipment. Keep container tightly closed. Keep in a cool, well-ventilated place.

Section 8: Exposure Controls/Personal Protection	
<u>Engineering Controls</u>	
Heated materials at or near processing temperatures require local exhaust ventilation, or other engineering controls, to reduce exposure to vapors.	
<u>Personal Protection</u>	
<i>Eyes:</i>	Safety glasses
<i>Body:</i>	No special protective clothing is required. Washing at mealtime and end of shift is adequate.
<i>Respiratory:</i>	No respiratory protection should be needed.
<i>Hands:</i>	Thermally insulated gloves required when handling hot material.

Section 9: Stability and Reactivity	
Chemical Stability:	Stable
Conditions to avoid:	Temperatures greater than 350°C
Materials to avoid:	Oxidizing materials may cause a reaction
Hazardous Polymerization:	None.
Hazardous Decomposition:	Carbon monoxide and carbon dioxide. A negligible amount may decompose into formaldehyde.

Section 10: Toxicological Information
<u>Acute Toxicological Data for Product</u> Complete information not yet available
<u>Component Toxicological Information</u> Complete information not yet available
<u>Special Hazard Information on Components</u> No known applicable information

Section 11: Ecological Information
<u>Environmental Fate and Distribution</u> No specific information is available
<u>Ecotoxicity</u> No specific information is available
<u>Persistence and Degradation</u> No specific information is available

Section 12: Disposal Considerations
<u>Waste Information</u> Waste is classified as non-hazardous. Transfer to an approved disposal area in accordance with federal, state, and local regulations. If product is to be incinerated in an industrial or commercial facility, it is recommended to be done in the presence of combustible material. Dispose of waste product in sanitary landfill.

Section 13: Transportation Information	
DOT Classification:	Not a DOT controlled material
Marine Pollutant:	Not available
Proper Shipping Name:	Not Applicable
Hazard Technical Name:	Not Applicable
Hazard Class:	Not Applicable

Section 14: Regulatory Information	
<u>TSCA Status</u>	
All chemical substances in this material are included on or exempt from the listing on the TSCA Inventory of Chemical Substances.	
EPA SARA Title III Chemical Listings:	
<u>Section 302 Extremely Hazardous Substances</u>	
None	
<u>Section 304 CERCLA Hazardous Substances</u>	
None	
<u>Section 312 Hazard Class:</u>	
Acute:	No
Chronic:	No
Fire:	No
Pressure:	No
Reactive:	No
<u>Section 313 Toxic Chemicals:</u>	
None present or none present in regulated quantities.	
<u>Supplemental State Compliance Information</u>	
<i>California</i>	
Warning: This products contains the following chemical(s) lasted by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.	
None known.	

Section 15: Other Information

Prepared by: Polymer Dynamix, L.L.C.

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The information is offered in good faith and not as product specifications, and is believed to be correct as of the date issued. No warranties, expressed or implied, are hereby made by Polymer Dynamix. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.