

We are proud to offer two unique, research-grade polymer reference materials designed to support environmental science, method development, and microplastic analysis

Why Choose HPU CMDR's Materials?



Traceable & Transparent: Each material comes from a single lot which is characterized using FTIR and Raman microscopy, particle sizing, SEM, pyrolysis-GC/MS and more



Collaborative Network: Connect with researchers around the world via our Polymer Kit Network



Mission-Driven: Your purchase directly supports marine debris research and student training

Each purchase includes:

- ✓ High-purity LDPE particles (spherical or irregular), both ~10 μm in size
- ✓ Dry powder in secure vial
- ✓ Detailed Report of Analysis (≥ 10 characterization metrics)
- ✓ Invitation to join the Polymer Kit Research Network (Google Group)
- ✓ Support from HPU CMDR's expert team



The production and testing of this kit was supported by the American Chemistry Council, National Institute of Standards and Technology, and Thermo Fisher Scientific



[Order Here](#)

Pricing

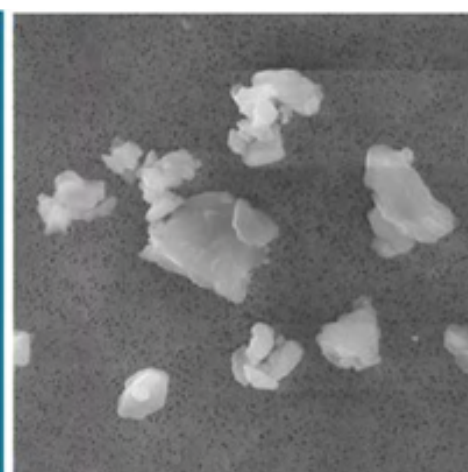
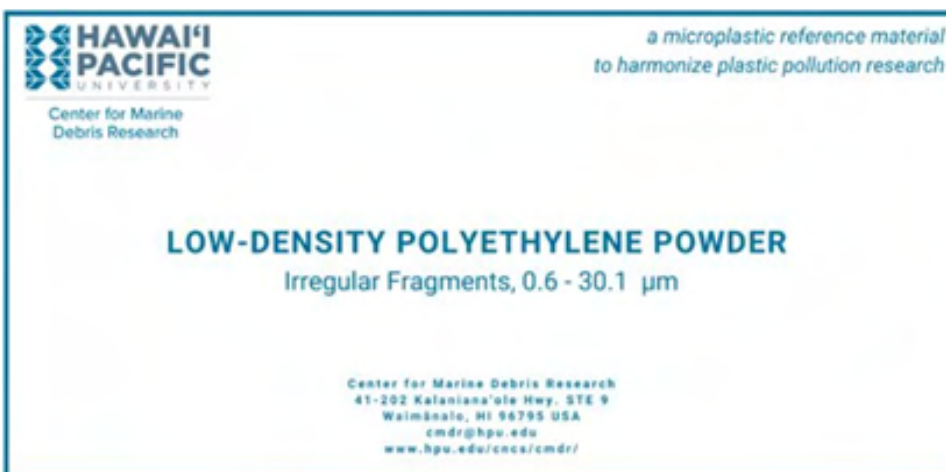
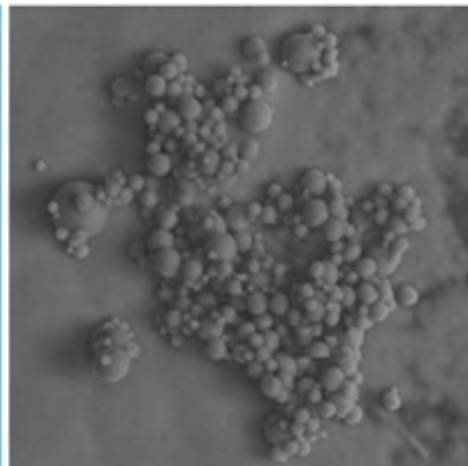
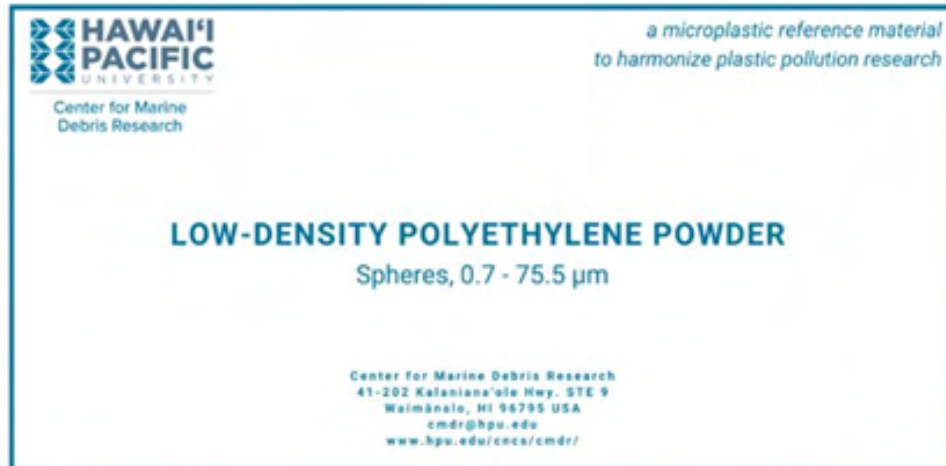
2 g = \$400

100 g = \$2,500

2,000 g = \$15,000

Price for 2 g and 100 g includes
U.S. standard shipping
Price for 2 kg is quoted
separately

LDPE Reference Material | Center for Marine Debris Research



Also includes a USB stick with containing a comprehensive suite of characterizing analytics:

- Written Report of Analysis for LDPE Spheres and LDPE Irregular Fragments
- Data for the following instruments
 - Micro-FTIR spectra in .spa and .png file types
 - Raman spectra in .wdf and .png file types
 - Py-GC/MS spectra in .D file type
 - ATR FTIR spectra in .spa and .png file types
 - DSC melt curves in .spa and .png file types
- Instructions on how to register for a listserve with others that have the same kit.

Warning - This product may cause combustible dust concentrations in air.

Warning - Inhalation danger. A proportion of the material consists of particle sizes that can penetrate deep into the lungs.