


Materials That Played a Pioneering Role in the Development of Technology for Manufacturing Polyethylene

Registration No.	Number 00236		
Registration Date	September 12, 2017	Registration Category	Category 2
Name (Model, etc.)	Materials from pilot plant rest involving low-density polyethylene (LDPE) made using a high-pressure process		
Location	Uji, Kyoto		
	Institute for Chemical Research, Kyoto University		
Owner (Custodian)	Institute for Chemical Research, Kyoto University		
Manufacturer (Company)	Institute for Chemical Research, Kyoto University		
Year Manufactured	1951-1954		
Year first appeared			
Reason For Selection	<p>These are blueprints and other related materials that were used in a pilot plant initiative involving continuous industrialization testing of low-density polyethylene (LDPE) using a high-pressure process, conducted by Kyoto University Institute for Chemical Research from 1951 to 1953. Items remaining from those days include notes for experiments, photographs of equipment, glass photographic plates, and internal reports presumably from 1954. Sumitomo Chemical later received a subsidy from the former Ministry of International Trade and Industry (MITI), and established an expanded industrialization testing facility in the city of Niihama. Sumitomo Chemical's successful track record with respect to developing such technologies led to it gaining a license for an LDPE technology process from Imperial Chemical Industries Ltd. (ICI) of the United Kingdom. These materials are historically significant in that they exemplify technological development in the field of petrochemistry in Japan.</p>		
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.)		
Open/Closed to Public	Closed to Public		
Photo			
Other useful information			