

FDM ATR Polymers (1138 Spectra)

These FTIR spectra were run on a single bounce monolithic Diamond ATR crystal. The spectral range is 400 cm⁻¹ to 4000 cm⁻¹ and the optical resolution is 2 cm⁻¹. So as to provide high quality spectra for high refractive index samples this library includes 54 spectra run on a Germanium ATR crystal.

These spectra consist of polymers, plasticizers and monomers. The samples are neat chemicals and/or chemical standards, acquired new for the purposes of building this library. They are listed with chemical names and CAS numbers, which are extremely useful for searching the web. A COA (Certificate of Analysis) stands behind virtually every neat polymer, plasticizer and monomer.

Additional physical property data such as Mw, Mn and Tg are listed with most polymer names. These properties provide a more complete description of the specific sample that industrial polymer scientists are sure to appreciate. Copolymers are presented in various ratios. Many polymers are presented in series with varying properties such as average molecular weights, percent chlorine, etc.

This library was expanded to cover trade name polymer additives, common and engineering plastics and rubber.

Samples from the chemical name index:

2-Ethylhexyl acrylate, 20 ppm MEHQ, 103-11-7

Ethylene/vinyl acetate copolymer, 40% VA by wt., Mw=100000, 24937-78-8

Hydroxybutyl methyl cellulose, hydroxybutyl 3.5%, methoxyl 30%, 9041-56-9

Hydroxypropyl cellulose, Mw=60000, 9004-64-2

Hydroxypropyl methyl cellulose, hydroxypropyl 10%, methoxyl 30%, Mn=86000, 9004-65-3

Methyl cellulose, methoxyl 30%, Mn=86000, Tg=150, 9004-67-5

Methyl vinyl ether/maleic acid copolymer, 50/50, 25153-40-6

Acrylonitrile/butadiene copolymer, acrylonitrile 21%, 9003-18-3

Acrylonitrile/butadiene copolymer, acrylonitrile 27%, 9003-18-3

Acrylonitrile/butadiene copolymer, acrylonitrile 31%, 9003-18-3

Acrylonitrile/butadiene copolymer, acrylonitrile 38%, 9003-18-3

Acrylonitrile/butadiene copolymer, acrylonitrile 43%, 9003-18-3

Chloroparaffin, 41% Cl, 63449-39-8

Chloroparaffin, 50% Cl, 63449-39-8

Chloroparaffin, 60% Cl, 63449-39-8

Chloroparaffin, 70% Cl, 108171-26-2

Nylon 11, Tg=46, 25587-80-8

Nylon 12, Tg=37, 25038-74-8

Nylon 6, 25038-54-4

Nylon 6/12, Tg=46, 26098-55-5

Nylon 6/6, Tg=45, 32131-17-2

Nylon 6/9, Tg=58, 27136-65-8