

RESORBABLE / BIOABSORBABLE

Commonly used for implantable medical applications suitable for degradation within the body including surgical devices, implants, and drug delivery systems.

Symbol	Material	Example Grades
PDL	Poly-DL-lactide	Purasorb PDL, Resomer R
PDLG	Poly-DL-lactide/glycolide copolymer	Purasorb PDLG, Resomer RG
PDO	Polydioxanone	Resomer X
PEG	PEG copolymers	Resomer PEG LP T
PG	Polyglycolide	Purasorb PG 20
PLA	Polylactic Acid	Purasorb PL, Resomer L
PLC	Poly lactide-co-caprolactone	Purasorb PLC, Resomer LC
PLDL	Poly lactide/DL-lactide copolymer	Purasorb PLDL, Resomer LR
PLG / PLGA	Poly lactide-co-glycolide	Purasorb PLG, Resomer LG

ENGINEERING GRADE

Commonly used when specific material requirements are necessary to control properties including strength, durability, chemical resistance, flexibility, and lubricity.

Symbol	Material	Example Grades
ABS	Acrylonitrile Butadiene Styrene	Lustran, Terluran, Polylac
FEP	Fluorinated Ethylene Propylene	Teflon FEP
HSG	High Specific Gravity Nylons	Thermocomp
LCP	Liquid Crystal Polymer	Vectra, RTP, Zenite
PA (Nylon)	Polyamide	Zytel, Grivory, Torlon, Thermotuf, Thermocomp, Hylon
PPA	Polyphthalamide	Amodel
PARA	Polyarylamide	IXEF
PBT	Polybutylene Terephthalate	Valox, Celanex, Crastin
PC	Polycarbonate	Makrolon, Calibre, Cycloy, Lexan, Lubriloy, Hylex

PEBA	Polyether Block Amide	Grilflex, Pebax
PEEK	Polyetheretherketone	Victrex, RTP, Invibio (Optima/Classix)
PEI	Polyetherimide	Ultem, RTP
PESU	Polyether Sulfone	Ultrason, Thermocomp
PFA	Perfluoroalkoxyethylene	Teflon PFA, Hyflon
PMMA (Acrylic)	Polymethylmethacrylate	Acrylite, RTP
POM (Acetal)	Polyoxymethylene	Celcon, Delrin
PPS	Polyphenylene Sulfide	Celstran, Fortron, Hyvex
PSU	Polysulfone	Lubricomp, Udel, RTP, Ultrason
SAN	Styrene Acrylonitrile	Luran
SBC	Styrene Block Copolymer	K- resin, Styrolux
SMMA (Acrylic)	Styrenemethylmethacrylate	Zylar, NAS
TPE	Thermoplastic Elastomer	Versalloy, Dynaflex
TPU	Thermoplastic Polyurethane	Desmopan, Elastollan

COMMODITY GRADE

Commonly used when the requirements for strength, durability, chemical resistance, flexibility, etc. are not particularly strict.

Symbol	Material	Example Grades
HDPE	High Density Polyethylene	Marlex/Marflex, Dow, Ineos, Sclair
HIPS	High Impact Polystyrene	Ineos Nova, Americas Styrenics
LDPE	Low Density Polyethylene	Dow, Exxon Mobil, Westlake, Ineos
LLDPE	Linear Low Density Polyethylene	Dow, Exxon Mobil, Westlake, Ineos
PETG	Polyethylene Terephthalate Glycol	Eastar
PP	Polypropylene	Flint Hills Resources, Ferro, Hostacom
PS	Polystyrene	Ineos Nova, Americas Styrenics