

**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
<b>PDL</b>	Poly-DL-lactide	Purasorb PDL, Resomer R
<b>PDLG</b>	Poly-DL-lactide/ glycolide copolymer	Purasorb PDLG, Resomer RG
<b>PDO</b>	Polydioxanone	Resomer X
<b>PEG</b>	PEG copolymers	Resomer PEG LP T
<b>PG</b>	Polyglycolide	Purasorb PG 20
<b>PLA</b>	Polylactic Acid	Purasorb PL, Resomer L
<b>PLC</b>	Poly lactide-co-caprolactone	Purasorb PLC, Resomer LC
<b>PLDL</b>	Poly lactide/DL-lactide copolymer	Purasorb PLDL, Resomer LR
<b>PLG / PLGA</b>	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
<b>ABS</b>	Acrylonitrile Butadiene Styrene	Lustran, Terluran, Polylac
<b>FEP</b>	Fluorinated Ethylene Propylene	Teflon FEP
<b>HSG</b>	High Specific Gravity Nylons	Thermocomp
<b>LCP</b>	Liquid Crystal Polymer	Vectra, RTP, Zenite
<b>PA (Nylon)</b>	Polyamide	Zytel, Grivory, Thermotuf, Thermocomp, Hylon
<b>PPA</b>	Polyphthalamide	Amodel
<b>PARA</b>	Polyarylamide	IXEF
<b>PBT</b>	Polybutylene Terephthalate	Valox, Celanex, Crastin
<b>PC</b>	Polycarbonate	Makrolon, Calibre, Cycloy, Lexan, Lubriloy, Hylex
<b>PEEK</b>	Polyetheretherketone	Victrex, RTP, Invibio (Optima/Classix), Vestakeep

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

**COMMODITY GRADE**

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

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