Compression characteristics:

Compressive modulus Compressive stress strength at break Compressive stress strength at yield Dynamic compressive properties storage modulus Dynamic compressive properties loss tangent Dynamic compressive properties loss modulus

Optical property:

Refractive index

Heat resistance and combustion:

Oxygen index

Polymers'

Characteristics

Physicochemical property:

Cohesive energy density Gas diffusion coefficient d Gas permeability coefficient p Gas solubility coefficient s Hansen parameter delta-d: dispersion component Hansen parameter delta-h: hydrogen bonding Hansen parameter delta p polar Interfacial tension Solubility parameter Surface tension Water absorption Water vapor transmission

Contact angle

Flexural property:

Dynamic flexural properties storage modulus Dynamic flexural properties loss modulus Dynamic flexural properties loss tanget Flexural modulus Flexural stress strength at break Flexural stress strength at yield

Physical property:

Bulk modulus Compressibility G value Pvt relation pressure Pvt relation specific volume Pvt relation temperature Radiation resistance Density Specific volume

Heat characteristics:

Brittleness temperature Deflection temperature under load hdt Softening temperature Vicat softening temperature

Impact strength:

Charpy impact Izod impact

Electric property:

Dielectric constant ac Dielectric loss factor Dielectric loss tangent **Electric conductivity** Surface resistivity Volume resistivity

Creep characteristics:

Tensile creep compliance Tensile creep modulus Tensile creep recovery Tensile creep rupture time Tensile creep strain Flexural creep strain

Tensile creep rupture strength

Dilute solution property:

Intrinsic viscosity eta Radius of gyration Second virial coefficient Diffusion coefficient Sedimentation coefficient

Shear property:

Dynamic shear properties storage modulus Dynamic shear properties loss modulus Dynamic shear properties loss tangent Shear modulus Shear stress strength at break Shear stress strength at yield

Tensile property:

Dynamic mechanical properties storage modulus Dynamic mechanical properties loss modulus Dynamic mechanical properties loss tangent **Elongation** at break **Elongation** at yield Fiber tensile elongation at break Fiber tensile modulus Fiber tensile stress strength at break Tensile modulus Tensile stress strength at break Tensile stress strength at yield

Hardness:

Shore hardness

Thermal property:

Crystallization kinetics r Crystallization kinetics k Crystallization kinetics n Crystallization kinetics half time of crystallization Crystallization temperature Glass transition temperature Heat of crystallization Heat of fusion Heat of fusion mol conversion Thermal decomposition temperature Thermal decomposition weight loss Isothermal weight loss temperature Isothermal weight loss time Lc phase transition temperature Melting temperature Specific heat capacity cp Specific heat capacity cv Thermal conductivity Thermal diffusivity

Rheological property:

Dynamic viscosity loss tangent