5.4 Critical dimensions

Plastic piping system components shall comply with the critical dimensions of the applicable standards as referenced in 2 of this Standard. For pipe and spigot ends of fittings, the critical dimensions are the minimum wall thickness, outside diameter, and out-of-roundness. For pipe intended to be used with insert-type fittings such as PE, PEX, PEX-AL-PEX or PE-AL-PE, the critical dimensions are the minimum wall thickness, the maximum wall thickness and outside diameter. For socket or threaded fittings, the critical dimensions are minimum wall thickness, socket entrance diameter, bottom diameter, out-of-roundness, socket depth, threads (as measured with thread gauges), and thread length. For other fittings, critical dimensions are those specified in the normative reference standard.

Out-of-roundness requirement shall apply at the time of manufacture (i.e., before shipment or coiling), if such requirement applies per the product standard.