

PA6 Series: Shakespeare® HZ73SI

Shakespeare® HZ73SI is a high viscosity, plasticized, PA 6 resin. It is specifically suited for applications requiring excellent abrasion resistance, tensile strength and elongation properties. This is an extrusion grade resin that can be processed using conventional techniques.

Applications:

-  Monofilament Extrusion
-  Film Extrusion
-  Cable Jacketing
-  Tubing
-  Fibers
-  Profile Extrusion

Typical Properties

Physical Properties	Typical Values	Unit	Test Standard
Density	1.11	<i>g/cm³</i>	ASTM D792
Water Absorption (24hr Immersion)	0.53	%	ASTM D570
Relative Viscosity (96% Formic Acid)	~ 73	--	--

Thermal Properties	Typical Values	Unit	Test Standard
Mold Shrinkage (Flow Direction)	1.5	%	ASTM D955
Glass Transition Temperature	120	°C	DSC
Melting Temperature	213	°C	DSC

Mechanical Properties	Dry / Cond.	Unit	Test Standard
Tensile Modulus	1868 / 1640	<i>MPa</i>	ASTM D638
Tensile Stress at Break	54 / 53	<i>MPa</i>	ASTM D638
Izod Notched Impact Strength (23°C)	135 / 135	<i>J/m</i>	ASTM D256