

PA6/69 Series: Shakespeare® CV140SI

Shakespeare® CV140SI is a high viscosity PA6/69 material. This resin is specifically suited for applications requiring superior toughness and abrasion resistance. Shakespeare® CV140SI is also used in applications requiring good electrical insulation properties and can be processed using conventional techniques.

Applications:

- ▶ Monofilament Extrusion
- ▶ Film Extrusion
- ▶ Tubing/Cable Jacketing
- ▶ Electrical Connectors
- ▶ Impact Modifier
- ▶ Trimmer Line

Typical Properties

Physical Properties	Typical Values	Unit	Test Standard
Density	1.12	<i>g/cm³</i>	ASTM D792
Relative Viscosity (96% Formic Acid)	~ 140	--	--

Thermal Properties	Typical Values	Unit	Test Standard
Mold Shrinkage (Flow Direction)	0.87	%	ASTM D955
Melting Temperature	193	°C	DSC

Mechanical Properties	Cond.	Unit	Test Standard
Tensile Modulus	520	<i>MPa</i>	ASTM D638
Tensile Stress at Yield	32	<i>MPa</i>	ASTM D638
Tensile Strain at Yield	15.5	%	ASTM D638
Tensile Stress at Break	60	<i>MPa</i>	ASTM D638
Tensile Strain at Break	260	%	ASTM D638
Flexural Modulus	620	<i>MPa</i>	ASTM D790
Flexural Stress	25	<i>MPa</i>	ASTM D790
Izod Notched Impact Strength (-30°C)	43	<i>J/m</i>	ASTM D256