

PA612 Series: Valladyn™ HG264SI

Valladyn™ HG264SI is a medium viscosity PA612 material. This resin is specifically suited for applications requiring low moisture regain and greater dimensional stability. Valladyn™ HG264SI is also used in applications requiring good electrical insulation properties and can be processed using conventional techniques.

Applications:

- ▶ Injection Molding
- ▶ Profile Extrusion
- ▶ Tubing/Cable Jacketing
- ▶ Electrical Connectors
- ▶ Films/Filament
- ▶ FDA Compliant

Typical Properties

Physical Properties	Typical Values	Unit	Test Standard
Density	1.04	<i>g/cm³</i>	ASTM D792
Water Absorption (24hr Immersion)	0.33	%	ASTM D570
Relative Viscosity (96% Sulfuric Acid)	~ 1.75	--	ISO 307

Thermal Properties	Typical Values	Unit	Test Standard
Mold Shrinkage (Flow Direction)	0.97	%	ASTM D955
Melting Temperature	215	°C	DSC
Heat Deflection Temperature (0.46MPa)	155	°C	ASTM D648

Mechanical Properties	Dry / Cond.	Unit	Test Standard
Tensile Modulus	1760 / 1360	<i>MPa</i>	ASTM D638
Tensile Stress at Yield	64 / 61	<i>MPa</i>	ASTM D638
Tensile Strain at Yield	4.8 / 6.5	%	ASTM D638
Tensile Stress at Break	45 / 44	<i>MPa</i>	ASTM D638
Tensile Strain at Break	170 / 210	%	ASTM D638
Flexural Modulus	* / 1870	<i>MPa</i>	ASTM D790
Flexural Stress	* / 71	<i>MPa</i>	ASTM D790
Izod Notched Impact Strength (-30°C)	* / 45	<i>J/m</i>	ASTM D256