

PA610 Series: Valladyn™ HW29TL

Valladyn™ HW29TL is a bio-based, ultra-low viscosity PA610 product with excellent melt flow characteristics. It is specifically formulated for thin wall or high speed injection molding applications. Valladyn™ HW29TL is suitable for applications requiring low moisture absorption, great dimensional stability and can be processed using conventional techniques.

Applications:

- ▶ Injection Molding (Thin Wall)
- ▶ Micro/Precision Molding
- ▶ Tubing/Cable Jacketing
- ▶ Electrical Connectors
- ▶ Glass Molded Compounds

Typical Properties

Physical Properties	Typical Values	Unit	Test Standard
Density	1.07	<i>g/cm³</i>	ASTM D792
Water Absorption (24hr Immersion)	0.4	%	ASTM D570
Relative Viscosity (96% Formic Acid)	~ 33	--	--

Thermal Properties	Typical Values	Unit	Test Standard
Mold Shrinkage (Flow Direction)	1.33	%	ASTM D955
Melting Temperature	223	°C	DSC
Heat Deflection Temperature (0.46MPa)	126	°C	ASTM D648

Mechanical Properties	Dry / Cond.	Unit	Test Standard
Tensile Modulus	2120 / 1430	<i>MPa</i>	ASTM D638
Tensile Stress at Yield	66 / 63	<i>MPa</i>	ASTM D638
Tensile Strain at Yield	4.2 / 6.3	%	ASTM D638
Tensile Stress at Break	46 / 45	<i>MPa</i>	ASTM D638
Tensile Strain at Break	110 / 140	%	ASTM D638