

Clear Nylon Series: SVPx-129 Novadyn™ DT/DI

SVPx-129 Novadyn™ DT/DI is a medium viscosity, semi-aromatic PA copolymer of DT/DI. Novadyn™ high performance polyamide provides excellent transparency, chemical resistance and a higher Tg than traditional polyamides of 6I/6T. Applications include clear molded parts, compounds for metal replacement, additives for fiber property enhancement, films and reducing the moisture effect in traditional nylon molded parts.

Applications:

- ▶ Injection Molding
- ▶ Compounding
- ▶ Functional Additives

Typical Properties

Physical Properties	Typical Values	Unit	Test Standard
Density	1.18	<i>g/cm³</i>	ISO 1183
Water Absorption (24hr Immersion)	0.97	%	ISO 62
Melt Flow Rate (270°C w/ 2,160 g)	17	<i>g/10min</i>	ISO 1133

Thermal Properties	Typical Values	Unit	Test Standard
Glass Transition Temperature (20°C/min)	145	°C	DSC
Heat Deflection Temperature (0.45MPa)	134	°C	ISO 75

Mechanical Properties	Dry / Cond.	Unit	Test Standard
Tensile Modulus	3.0 / 3.5	<i>GPa</i>	ISO 527
Tensile Strength	102 / 111	<i>MPa</i>	ISO 527
Elongation at Yield	7.0 / 6.3	%	ISO 527
Elongation at Break	8.3 / 7.4	%	ISO 527
Flexural Modulus	2.9 / 3.2	<i>GPa</i>	ISO 178
Flexural Strength	128 / 143	<i>MPa</i>	ISO 178
Izod Notched Impact Strength (23°C)	6.7 / 4.3	<i>kJ/m²</i>	ISO 180