



Product Data Sheet

ENGINEERED NYLONS

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PA612 Series: Shakespeare® HG195SC

Description:

Shakespeare® HG195SC is a low viscosity, compounding grade PA612 material. This resin is specifically suited for applications requiring low moisture regain and greater dimensional stability. Shakespeare® HG195SC is also used in applications requiring good electrical insulation properties, and can be processed using conventional techniques.

Application Examples:

Micro/Precision Molding
Electrical Connectors

Automotive
Improved Loading

Glass Molded Compounds
Engineered Plastic Parts

Typical Properties:

Physical Properties	Typical Values	Unit	Test Standard
Density	1.04	g/cm ³	ASTM D792
Water Absorption (24hr Immersion)	0.4	%	ASTM D570
Relative Viscosity (96% Sulfuric Acid)	~ 2.1	--	--
Melt Flow Rate	--	g/10min	ASTM D1238

Thermal Properties	Typical Values	Unit	Test Standard
Mold Shrinkage (Flow Direction)	1.13	%	ASTM D955
Glass Transition Temperature	--	°C	DSC
Melting Temperature	217	°C	DSC
Heat Deflection Temperature (0.46MPa)	--	°C	ASTM D648

Mechanical Properties	Dry / Cond.	Unit	Test Standard
Tensile Modulus	2280 / 1850	MPa	ASTM D638
Tensile Stress at Yield	66 / 64	MPa	ASTM D638
Tensile Strain at Yield	4.8 / 11.0	%	ASTM D638
Tensile Stress at Break	42 / 42	MPa	ASTM D638
Tensile Strain at Break	50 / 50	%	ASTM D638
Flexural Modulus	* / *	MPa	ASTM D790
Flexural Stress	* / *	MPa	ASTM D790
Izod Notched Impact Strength (23°C)	* / *	J/m	ASTM D256
Izod Notched Impact Strength (-30°C)	* / *	J/m	ASTM D256

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