NYLON SOLUTIONS

Aegis® H85WC01 Nylon Compound

Description

Aegis® H85WC01 is a medium viscosity, heat stabilized, nylon 6 wire jacket compound providing excellent performance across the range of THHN, THWN and TFFN constructions. It also offers a well-balanced set of properties including low fuming, high toughness, abrasion resistance and excellent resistance to gasoline, oil and other hydrocarbons. Aegis® H85WC01 nylon compound is certified under UL QMTT2 and UL QMTM2 for use in wire, cable, flexible lighting and plenum applications.

Typical Properties	Test Method	Unit	Value
Physical Properties			
Melting Point	ASTM D-3418	ºC (ºF)	220 (428)
Density	ASTM D-1505	g/cm^3	1.13
Form	–	–	Pellets
Mechanical Properties (DAM*, 23°C/73.4°F)			
Tensile Strength at Break	ASTM D-638	PSI (MPa)	11,589 (79.9)
Percent Elongation at Break	ASTM D-638	%	48.5
Flexural Strength	ASTM D-790	PSI (MPa)	16,327 (113)
Flexural Modulus	ASTM D-790	PSI (MPa)	419,022 (2,889)
Notched Izod Impact Strength	ASTM D-256	ft-lbs/in (J/m)	0.97 (51.5)

**DAM = Dry as molded*

Processing Guidelines

Material Handling

This product is supplied in sealed containers and drying prior to processing is not required. However, higher moisture is the primary cause of processing issues. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 70ºC (158ºF) is recommended. Drying time is dependent on moisture level. More information about safe handling procedures can be obtained by requesting the Safety Data Sheet on AdvanSix.com.

Typical Extrusion Temperature Profile

Barrel: 249-266ºC (480-510ºF)
Adapter: 260-266ºC (500-510ºF)
Die: 260-266°C (500-510°F)
Process Melt Temperature: 260-270ºC (500-518ºF)

The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

Contact AdvanSix
To learn more about the benefits of of Aegis® Nylon Resins, visit **AdvanSix.com/NylonSolutions** or call:
1-844-890-8949 (toll free, U.S./Can.)
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