

# Zythane® 8597AHM

## Alliance Polymers & Services - Thermoplastic Polyurethane Elastomer (Polyester)

### General Information

#### Product Description

Zythane® 8597AHM is a specially formulated polyester-based hotmelt TPU specifically formulated for fire hose application with excellent adhesion characteristic, faster setup and low stickiness. It is a plasticizer-free eco friendly TPU. It exhibits excellent abrasion resistance, peel resistance, low temperature flexibility. It is supplied uncolored in pellet form.

#### Typical Applications:

Zythane® 8597AHM is designed specifically for Fire hose and co-ex tubing applications.

#### General

Features	• Abrasion Resistant	• Good Adhesion	• Low Temperature Flexibility
Uses	• Hose	• Tubing	
Forms	• Pellets		
Processing Method	• Coextrusion		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	97		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	221	°F	DSC
Additional Information	Nominal Value	Unit	Test Method
Open Time	5.0	min	DSC

### Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	158	°F
Drying Time	4.0	hr
Cylinder Zone 1 Temp.	212	°F
Cylinder Zone 3 Temp.	266	°F
Cylinder Zone 5 Temp.	302	°F
Adapter Temperature	302 to 320	°F
Die Temperature	302 to 338	°F