

Lubrizol Estane® ZHF 82AT0 Thermoplastic Polyurethane, Flame Retardant

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyether Grade

Material Notes:

Type: Estane® ZHF 82AT0 NAT021 is an 82A aromatic polyether-based, non-halogen flame retardant, thermoplastic polyurethane (TPU) compound. Features: Soft, matte finished, good flame retardant properties. Uses: Wire and Cable extrusion. Available in Europe, Middle East, Africa, India and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-ZHF-82AT0-Thermoplastic-Polyurethane-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ISO 2781
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80 - 84	80 - 84	ISO 868
	@Time 3.00 sec	@Time 0.000833 hour	
Tensile Strength, Ultimate	24.5 MPa	3550 psi	ISO 527
Elongation at Break	620 %	620 %	ISO 527
50% Modulus	0.00410 GPa	0.595 ksi	
100% Modulus	0.00490 GPa	0.711 ksi	
300% Modulus	0.00820 GPa	1.19 ksi	
Tear Strength	50.1 kN/m	286 pli	Nicked; ISO 34-1B
	101.1 kN/m	576.9 pli	Unnicked; ISO 34-1B

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	vertical burn

Processing Properties	Metric	English	Comments
Zone 1	160 °C	320 °F	Extrusion
Zone 2	170 °C	338 °F	Extrusion
Zone 3	175 °C	347 °F	Extrusion
Zone 4	180 °C	356 °F	Extrusion

Adapter Temperature Processing Properties	180 °C Metric	356 °F English	5, Extrusion Comments
Die Temperature	170 °C	338 °F	7, tip, Extrusion
	175 °C	347 °F	6, Extrusion
Drying Temperature	105 °C	221 °F	
Dry Time	3.00 hour	3.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

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