

PolyOne OnFlex™ AW 300-02 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

OnFlex™ AW 300-02 is a non-halogen flame retardant material designed for appliance wire applications. New Product. Commercial specifications have not been established. Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP). Screen Pack: 60/60 Screw: 3:1 to 3.5:1 compression ratio screw PVC screw Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-OnFlex-AW-300-02-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Viscosity	35000 cP	35000 cP	ASTM D3835
	@Shear Rate 11200 1/s, Temperature 200 °C	@Shear Rate 11200 1/s, Temperature 392 °F	
Maximum Moisture Content	1.20e+6 cP	1.20e+6 cP	ASTM D3835
	@Shear Rate 67.0 1/s, Temperature 200 °C	@Shear Rate 67.0 1/s, Temperature 392 °F	
Deformation	40 %	40 %	300g; UL 1581
	@Temperature 150 °C	@Temperature 302 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	10 sec; ASTM D2240
Tensile Strength at Break	24.1 MPa	3500 psi	UL 1581
	17.9 MPa	2600 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	240 %	240 %	UL 1581
	240 %	240 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.42	2.42	IEC 60250-1969; IEC 60250
	@Frequency 50.0 Hz	@Frequency 50.0 Hz	
Dielectric Strength			IEC 60243-1

Electrical Properties	51.0 kV/mm Metric	1300 kV/in English	Comments
Dissipation Factor	0.0060	0.0060	Tangent Test condition: 50 Hz IEC 60250-1969; IEC 60250

Processing Properties	Metric	English	Comments
Zone 1	180 - 190 °C	356 - 374 °F	
Zone 2	185 - 200 °C	365 - 392 °F	
Zone 3	185 - 210 °C	365 - 410 °F	
Zone 4	185 - 210 °C	365 - 410 °F	
Die Temperature	195 - 220 °C	383 - 428 °F	
Drying Temperature	70.0 - 81.1 °C	158 - 178 °F	
Dry Time	4.00 - 8.00 hour	4.00 - 8.00 hour	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Features	Flame Retardant	
Forms	Pellets	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Extrusion	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Wire & Cable Applications	
VW-1	pass	UL 1581

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China