

PolyOne OnFlex™ HFFR 360-0185 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

OnFlex™ HFFR 360-0185 is a non-halogen flame retardant material designed for injection molding applications. New Product. Commercial specifications have not been established. - Non-halogen flame retardant - UL 94 V1/V0 compliant. Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP). Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-OnFlex-HFFR-360-0185-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Viscosity	125000 cP	125000 cP	ASTM D3835
	@Shear Rate 1340 1/s, Temperature 200 °C	@Shear Rate 1340 1/s, Temperature 392 °F	
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	10 sec; ASTM D2240
Tensile Strength at Break	8.83 MPa	1280 psi	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	140 %	140 %	Die C2 hr; ASTM D412
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	26.1 kN/m	149 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	UL 94
	@Thickness 6.00 mm	@Thickness 0.236 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	182 - 193 °C	360 - 379 °F	
Middle Barrel Temperature	210 - 227 °C	410 - 441 °F	
Front Barrel Temperature	227 - 238 °C	441 - 460 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	70.0 °C	158 °F	
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	

Descriptive Properties	Value	Comments
Agency Ratings	UL 94 .QMFZ2.E76261	
Appearance	Black	
Features	Flame Retardant	
Forms	Pellets	
Generic Material	TPE	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Slow-Moderate	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Connectors	
	Plugs	
	Wire & Cable Applications	

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