3M™ Dyneon™ Fluoroplastic E-15188H

Fluoropolymer

3M Advanced Materials Division

Message:

Dyneon Fluoroplastic E-15188H is a fluorothermoplastic containing tetrafluoroethylene, hexafluoropropylene and vinylidene fluoride. This terpolymer provides a combination of performance advantages unmatched by any other melt processable fluorothermoplastic, offering new opportunities to make multi-layer hoses, tubing, film, sheet, seals and containers.
Special Features
Excellent flexibility
Excellent chemical resistance
Excellent permeation resistance to fuels
Bondable to itself and other substrates (for multi-layer constructions)
Processing profile allows co-processing with olefinic plastics and hydrocarbon elastomers
Low flammability
High transparency
Low refractive index

General Information	
Features	Adhesiveness
	Good flexibility
	Good chemical resistance
	Good weather resistance
	Fuel resistance
	Definition, high
	Terpolymer
Uses	Films
	Wire and cable applications
	Pipe
	Pipe fittings
	Seals
	Sheet
	Container
	Profile
Appearance	Clear/transparent
Forms	Particles
Processing Method	Film extrusion
	Wire & Cable Extrusion
	Extrusion
	Profile extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method

Density	2.00	g/cm³	ISO 12086
Melt Mass-Flow Rate (MFR)	5.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	24.0	MPa	ISO 527-2
Tensile Strain (Break)	450	%	ISO 527-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	26.0	°C	ASTM D4591
Melting Temperature	165	°C	ISO 12086
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	> 75	%	ASTM D2863
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.360		ASTM D542
Transmittance			
100 µm, 300 nm	85.0	%	
100 µm, 600 nm	93.0	%	
Injection	**Nominal Value**	**Unit**	
Nozzle Temperature	260 - 280	°C	
Mold Temperature	50 - 100	°C	
Extrusion	**Nominal Value**	**Unit**	
Hopper Temperature	30 - 70	°C	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	220	°C	
Cylinder Zone 3 Temp.	260	°C	
Die Temperature	270	°C	

Recommended distributors for this material

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