

Teknor Apex Sarlink® 4339D Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Vinyl (PVC) , PVC, Wire and Cable Grade

Material Notes:

A highly engineered thermoplastic elastomer for use in demanding applications. Sarlink® 4339D is a flame retardant, high hardness grade processing exceptional chemical resistance, compression set and high temperature performance. This product can be processed by injection molding or extrusion. Applications include wire and cable insulation, electrical connectors, seals gaskets and boots. This product is designed as an alternate to thermoset elastomers like EPDM and chlorosulfonated polyethylene. Processing and Handling (See more in property table) Sarlink® 4339D is a polypropylene based elastomer which can be processed on conventional thermoplastic equipment for injection molding, extrusion and blow molding. This product has a wide processing window in most applications. Melt temperatures from 360°F to 420°F can be used. Do not exceed 430°F. Drying is recommended for extrusion and injection molding and any time the material is used from an unsealed package. Extrusion screen pack is 20 to 60 mesh. PURGING This product has excellent melt stability. Empty the barrel for idle periods of thirty (30) minutes or longer. Purge thoroughly before and after use of this product with polyethylene or polypropylene. RECYCLING/REGRIND This product can be reprocessed. Physical properties are generally not degraded. Dry regrind prior to reprocessing. COLORING The use of polyolefin based color concentrates is recommended. Apply back pressure in injection molding to disperse color. BONDING/ASSEMBLY Thermal bonding techniques can be used to form high strength bonds. Adhesive bonding can be achieved with specialized adhesives. Bond strength is limited due to the polypropylene base of this material. STORAGE and HANDLING This product is available in 55 lb. foil lined bags (up to 2,200 lbs. per pallet) or 1,100 lb. polyethylene lined gaylords. It has a storage life at normal temperatures of several years. Please refer to the Material Safety Data Sheet for this grade prior to first time handling. Sarlink® was sold from DSM to Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Sarlink-4339D-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	injection molded sample; 5 sec. delay; ASTM D2240
Tensile Strength at Break	13.60 MPa	1973 psi	ASTM D412
Elongation at Break	510 %	510 %	ASTM D412
100% Modulus	0.00740 GPa	1.07 ksi	ASTM D412
Tear Strength	53.7 kN/m	306 pli	ASTM D624
Compression Set	57 %	57 %	22h/23°C; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-43.0 °C	-45.4 °F	ASTM D2137

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.20 mm	@Thickness 0.0472 in	
Oxygen Index	30 %	30 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.3	2.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	25.2 kV/mm	640 kV/in	1" electrode in air; ASTM D149
Dissipation Factor	0.0030	0.0030	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 - 204 °C	350 - 400 °F	Injection Molding
	182 - 204 °C	360 - 400 °F	Extrusion
Middle Barrel Temperature	177 - 204 °C	350 - 400 °F	Injection Molding
	182 - 204 °C	360 - 400 °F	Extrusion Transition Zone
	188 - 204 °C	370 - 400 °F	Extrusion Metering Zone
Front Barrel Temperature	177 - 210 °C	350 - 410 °F	Injection Molding
	188 - 204 °C	370 - 400 °F	Extrusion
Nozzle Temperature	199 - 216 °C	390 - 420 °F	Injection Molding
Die Temperature	193 - 210 °C	380 - 410 °F	Extrusion
Melt Temperature	182 - 216 °C	360 - 420 °F	Injection Molding
	193 - 210 °C	380 - 410 °F	Extrusion
Mold Temperature	10.0 - 65.6 °C	50.0 - 150 °F	Injection Molding
Roll Temperature	21.1 - 48.9 °C	70.0 - 120 °F	Extrusion
Drying Temperature	82.2 °C	180 °F	
Dry Time	3 hour	3 hour	
Injection Pressure	0.0689 - 1.03 MPa	10.0 - 150 psi	Injection Molding Back Pressure
Screw Speed	100 - 200 rpm	100 - 200 rpm	Injection Molding

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