

Dow Tyrin® 3615P Chlorinated Polyethylene Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

36% Chlorine. Tyrin® chlorinated polyethylene thermoplastic resins offer the compounding and fabrication industries end product properties in a range of hardnesses, and behave much like flexible PVC in many uses. Can be calendered, injection molded, or extruded into tough, chemical and weather resistant products that can also provide built-in ignition resistance. Performance highlights include: inherent flexibility with plasticization; inherent chemical and ignition resistance; compatibility with PVC, PE, SAN, ABS, and other polymers, excellent low temperature properties, resistance to weathering, acceptance of fillers and heat/light stabilizers. This former DuPont Dow Elastomers product line is now produced by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Tyrin-3615P-Chlorinated-Polyethylene-Elastomer.php

Physical Properties	Metric	English	Comments
Moisture Vapor Transmission	1.80 cc-mm/m ² -24hr-atm	4.57 cc-mil/100 in ² -24hr-atm	36% Cl content Tyrin resin w/ Ba-Cd stabilizer, Epoxidized soybean oil, phosphite chelator, and lubricant.
Oxygen Transmission	32.0 cc-mm/m ² -24hr-atm	81.3 cc-mil/100 in ² -24hr-atm	36% Cl content Tyrin resin w/ Ba-Cd stabilizer, Epoxidized soybean oil, phosphite chelator, and lubricant.
Viscosity Measurement	24000	24000	Nominal melt viscosity. DuPont Dow test method CPE-D3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	23.0 MPa	3340 psi	typical Tyrin resin w/ Ba-Cd stabilizer, Epoxidized soybean oil, phosphite chelator, and lubricant.
Elongation at Break	425 %	425 %	typical Tyrin resin w/ Ba-Cd stabilizer, Epoxidized soybean oil, phosphite chelator, and lubricant.
100% Modulus	0.00140 GPa	0.203 ksi	Unfilled Tyrin compound; ASTM D412
Tear Strength Test	180	180	Unfilled Tyrin compound; ASTM D1004

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
Dielectric Constant	5.1	5.1	
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	6.1	6.1	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.010	0.010	

Designation Factor Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	Comments
	0.10	0.10	36% Cl content Tyrin resin w/ Ba-Cd stabilizer, Epoxidized soybean oil, phosphite chelator, and lubricant.
	@Frequency 10000 Hz	@Frequency 10000 Hz	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	93.0 - 106 °C	199 - 223 °F	for extrusion
Middle Barrel Temperature	106 - 149 °C	223 - 300 °F	for extrusion
Front Barrel Temperature	149 - 162 °C	300 - 324 °F	for extrusion
Nozzle Temperature	162 °C	324 °F	Extrusion die
Melt Temperature	177 °C	351 °F	Extrusion

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