

DuPont Surlyn® 9945 Thermoplastic Ionomer Resin

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9945 provides high flow properties and consistent, easy processing behavior in molded and extruded applications. It is positioned in the medium/high acid, high neutralization area of the ionomer spectrum. Surlyn® 9945 is ideal for applications where fast molding cycles at reduced molding temperatures are desired. The high flow characteristics also facilitate molding in thin sections. Surlyn® 9945 is used primarily in blends with other ionomers, such as Surlyn® 8945, to provide improved cut resistance and impact durability, as well as increased resiliency and coefficient of restitution. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-9945-Thermoplastic-Ionomer-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	ASTM D792
Melt Index of Compound	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength at Break	19.3 MPa	2800 psi	ASTM D638
Tensile Strength, Yield	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Flexural Modulus	0.338 GPa	49.0 ksi	ASTM D790(B)

Thermal Properties	Metric	English	Comments
Melting Point	51.0 - 89.0 °C	124 - 192 °F	ASTM D3418(DSC)
Vicat Softening Point	71.0 °C	160 °F	ASTM D1525

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