

DuPont Surlyn® PC2000 (discontinued **)

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate

Material Notes:

DuPont™ Surlyn® PC2000 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with sodium ions. The high MAA content and mid-range neutralization level for this grade creates an exceptional combination of strengths: toughness, low-temperature toughness, abrasion resistance, tear resistance, excellent clarity, and high stiffness compared with other grades of Surlyn®. The resin is highly suitable for injection molding, providing enhanced processability over other grades. Surlyn® PC2000 is ideal for applications where easy melt flow characteristics and high stiffness, high clarity and good abrasion resistance are desired. In golf ball covers, it provides good cut resistance, impact durability, high resiliency and increased coefficient of restitution, particularly when used in blends with different cations. Information provided by DuPont™

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-PC2000-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ASTM D792-ISO 1183
Melt Flow	4.5 g/10 min @Load 2.16 kg	4.5 g/10 min @Load 4.76 lb	Condition E; ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240-ISO 868
Tensile Strength at Break	31.00 MPa	4496 psi	ASTM D638 ISO 527-2
Tensile Strength, Yield	18.60 MPa	2698 psi	ASTM D638
Elongation at Break	320 %	320 %	ASTM D638 ISO 527-2
Flexural Modulus	0.490 GPa	71.1 ksi	ASTM D790
Tensile Impact Strength	897 kJ/m ²	427 ft-lb/in ²	ASTM D1822
Abrasion	301	301	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
Melting Point	104 °C	219 °F	Freezing Point; ASTM D3418
	183 °C	361 °F	ASTM D3417- ISO 3146
Vicat Softening Point	127 °C	261 °F	ASTM D1525, ISO 306

Optical Properties	Metric	English	Comments
Haze			ASTM D1003

Optical Properties	Metric	English	Comments
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