elitel UE-3700

Thermoplastic Copolyester Elastomer

UNITIKA Plastics Division

Message:

UNITIKA elitel resins are thermoplastic saturated copolymeric polyester resins. With the various excellent properties, elitel resins are expanding their applications from products such as adhesives, paints, ink binders, and modifying agents to the products in new-generation high-tech fields.
Characteristics
elitel products have superior adhesiveness and coatability compared to various materials. They exhibit excellent adhesiveness and coatability to a variety of materials: films and molded products of plastic materials such as polyester, polyvinylchloride, polycarbonate, and cellulose acetate; steel materials such as steel plates; metal materials such as copper, and aluminum; woven or nonwoven fabrics from polyester and other fibers; papers, woods, and others.
elitel products may be hardened by combined use of a hardening agent. In this manner, the excellent hardness, film properties, and heat-resisting properties may be further improved.
Blending of an elitel resin with another elitel resin or a different resin provides alloys with more diversified resin properties. Additionally, elitel products are effective as a modifying resin for providing other resins with flexibility, coatability, toughness, and others.
elitel resins form films excellent in flexibility, electrical properties, weather resistance, as well in appearance and transparency.
elitel resins retain consistent quality with smaller change in quality over time.
They are also excellent hygienically

General Information			
Features	Pure/High Purity		
	High strength		
	Copolymer		
	Good electrical performance		
	Good flexibility		
	Good adhesion		
	Good weather resistance		
	Heat resistance, high		
	Good toughness		
	Excellent appearance		
	Medium transparency		
Uses	Films		
	Mixing		
	Coating application		
	Adhesive		
Appearance	White		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.29	g/cm^3	ASTM D792
Water Absorption (equilibrium, 25°C, 60% RH)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	40		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12.7	MPa	ASTM D638
Tensile Elongation (Break)	1100	%	ASTM D638
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-10.0	°C	DSC
Melting Temperature	137	°C	
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant	5.20		IEC 60250
Dissipation Factor	0.026		IEC 60250
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity	100	Pa·s	ASTM D3835
Additional Information			

Molecular Weight, VPO Method: 20000Limiting Viscosity, Phenol/tetrachloroethane: 0.68Solubility parameter: insoluble

Recommended distributors for this material

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