TAISOX 9007

High Density Polyethylene

Formosa Plastics Corporation

Message:

TAISOX 9007 is a high density polyethylene material. This product is available in North America, Europe or Asia Pacific. The processing method is extrusion.
The main features of TAISOX 9007 are:
High resistance to environmental stress fracture (ESCR)
Good processability
Good toughness
beautiful
Typical application areas include:
Wire and cable
Foam
application of coating

General Information			
Features	Ultra high toughness High ESCR (Stress Cracking Resistance) High density Good formability Excellent appearance		
Uses	Wire and cable applications Insulating material Foam Communication Equipment Coating application		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.947	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	48.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	22.6	MPa	ASTM D638
Fracture	24.5	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**

Tensile Impact Strength	255	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525
Melting Temperature	128	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	2.30		ASTM D150
Dissipation Factor (1 MHz)	6.0E-5		ASTM D150
Additional Information			
Notched Izod Impact Strength, ASTM D256: 6 kg-cm/cm²			
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	220 - 250	°C	

Recommended distributors for this material

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