Technical Data Sheet

Polyman ABS E/HI CA K175 NAT

Acrylonitrile Butadiene Styrene

Product Description

Extrem high impact modified ABS grade with non migrating antistatic agent; surface resitance < 5-10 E11 Ohm.

Processing Method	Extrusion; Injection Molding
Attribute	Impact Modified
Additive	Antistatic; Impact Modifier

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	5.0	cm³/10 min	ISO 1133
Density, (Method A)	1.05	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	28.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	4.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	1200	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	36	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	No Break		ISO 179
Notched Izod Impact (Area), (23 °C)	49.0	kJ/m²	ASTM D256
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	88.0	°C	ISO 306
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
UL Information			
Flammability Classification, (1.5 mm)	HB		IEC 60695-11-10, -20