AKON CURTAIN AND DIVIDER

SPECIFICATION SHEET

VINYL COMPOUND
POLYSIM 509

POLYSIM 509 IS AN ELASTOMERIC POLYMER BLEND OF A PATENTED INHERENTLY DISSIPATIVE POLYMER (IDP) WITH THERMOPLASTIC POLYURETHANE (TPU). THE PRODUCT COMBINES THE TOUGHNESS AND FLEXIBILITY OF A TPU WITH AN INHERENTLY STATIC DISSIPATIVE POLYMER NETWORK. THIS NETWORK REMAINS INTACT THROUGH INJECTION MOLDING OR EXTRUDING, WHILE MAINTAINING THE PHYSICAL PROPERTIES OF A TPU. POLYSIM 509 ALLOYS ARE FORMULATED FOR PERMANENT AND CONSISTENT ESD PROTECTION WITHOUT COMPROMISING CLEANLINESS.

TYPICAL PHYSICAL PROPERTIES	TEST RESULTS	ASTM
HOST POLYMER	POLYETHER TPU	
FILLER	IDP ALLOY	
COLOR	TRANSPARENT BLACK OPAQUE WHITE OPAQUE	
SHORE HARDNESS	90A/47D	(D-2240) (SHORE A)
SPECIFIC GRAVITY	1.16	(D-792)

MECHANICAL PROPERTIES	TEST RESULTS	ASTM
ULTIMATE TENSILE STRENGTH	3800 (26)	(D-412) (PSI)
ULTIMATE ELONGATION	450%	(D-412)
100% MODULUS ELONGATION	1200 (8)	(D-412) (PSI)
300% MODULUS ELONGATION	2200 (15)	(D-412) (PSI)

ELECTRICAL PROPERTIES	TEST RESULTS	ASTM
SURFACE RESISTIVITY	$5X10^9$	(D-257) (OHMS/SQUARE)
VOLUME RESISTIVITY	$5X10^9$	(D-257) (OHMS-CM)
STATIC DECAY TIME BY CHARGE PLATE MONITOR	50% R.H.	0.1 SECONDS

FLAME SPREAD & SMOKE DENSITY

ASTM E84-00A “STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILIDING MATERIALS”:

FLAME SPREAD = 10 SMOKE DENSITY = 195

NFPA-701-2004 TEST METHOD 2 — FLAME PROPOGATION OF FILM “POLYSIM 509” RESULTS = PASS

FEATURES

- PERMANTENTLY STATIC DISSIPATIVE
- DOES NOT REQUIRE HUMIDITY
- ULTRA-CLEAN: LOW OFF-GASSING, LOW IONICS
- SEE-THROUGH CLARITY
- NO PARTICULATES

APPLICATIONS

- CLEANROOM SOFTWALLS
- WINDOWS
- DOORS

IMPORTANT:

COMPLETE TEST RESULTS FOR OUTGASSING, ANTI-STATIC AND FLAME SPREAD AVAILABLE UPON REQUEST.

WE BELIEVE THESE TESTS TO BE RELIABLE AND ACCURATE TO THE BEST OF OUR KNOWLEDGE BUT CANNOT WARRANTY FOR PROCESSES AND APPLICATIONS BEYOND OUR CONTROL.