TECHNICAL DATA SHEET, IDP-STAT PS COMPOUNDS IDR-2000

1. INTRODUCTION

The **IDP-STAT PS Compounds (IDR-2000)** are statically dissipative thermoplastic sheets based on Inherently Dissipative Polymers (IDP) technology. This class of materials have distinctive advantages in hot spots and cleanliness requirements in comparison to other materials based on Hygroscopic Antistats, Inherently Conductive Polymers (ICP) or Conductive Fillers such as carbon fibers and carbon blacks.

IDP-STAT Compounds exhibit superior property and processing characteristics compared with other competitive IDP based compounds.

2. MATERIAL PROPERTY

PROPERTIES	ASTM METHODS	ENGLISH UNIT	VALUES	SI UNIT	VALUES
PHYSICAL					
SPECIFIC GRAVITY	D792	-	1.04	-	1.04
MOLD SHRINKAGE	D955	%	0.5-0.8	%	0.5-0.8
MECHANICAL					
TENSILE STRENGTH	D638	psi	2,800	Mpa	20
FLEXURAL STRENGTH	D790	psi	4,200	Mpa	30
FLEXURAL MODULUS	D790	ksi	213	Mpa	1,470
NOTCHED IZOD IMPACT STRENGTH	D256	f.lbs/in	2.4	J/m	130
THERMAL					
HEAT DELFLECTION TEMPERATURE@264psi	D257	°F	163	℃	73
ELECTRICAL					
SURFACE RESISTIVITY	D257	10EΩ/sq	8-10	10EΩ/sq	8-10
STATIC DECAY TIME 5 KV to 50V	FTMS101C	sec.	<0.5	sec.	<0.5

Note : The property values shown above are the typical average values from injection molded specimens which can be expected from manufacturing lots and are not intended for specific purposes.

3. DRYING CONDITIONS OF IDP-STAT COMPOUNDS

RESIN	TEMP. (℃)	TIME (Hrs)
PS	70-80	3~4