

TECHNICAL DATA SHEET, IDP-STAT PC/ABS COMPOUNDS IDR-4000

1. INTRODUCTION

The **IDP-STAT PC/ABS Compounds (IDR-4000)** 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
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PHYSICAL

SPECIFIC GRAVITY	D792	-	1.35	-	1.35
MOLD SHRINKAGE	D955	%	0.3	%	0.3

MECHANICAL

TENSILE STRENGTH	D638	psi	5,800	Mpa	40
FLEXURAL STRENGTH	D790	psi	6,500	Mpa	45
FLEXURAL MODULUS	D790	ksi	625	Mpa	4,300
NOTCHED IZOD IMPACT STRENGTH	D256	ft.lbs/in	0.7	J/m	34

THERMAL

HEAT DEFLECTION TEMPERATURE@264psi	D257	°F	206	°C	97
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ELECTRICAL

SURFACE RESISTIVITY	D257	10EQ/sq	8-10	10EQ/sq	8-10
STATIC DECAY TIME 5 KV to 50V	FTMS101C	sec.	<2	sec.	<2

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. (°C)	TIME (Hrs)
PC/ABS	70-90	2-4