

POLYETHYLENE
TECHNICAL DATA SHEET



MATERIAL: PEL-IH-195

DESCRIPTION: High density antistatic injection molding PolyEthylene grade with 50% bio-based content. The surface resistivity is 10⁹ ohms/sq.

PROCESSING CHARACTERISTICS	METHOD	VALUE	UNIT
PROCESSING TEMPERATURE	SOP	300-320	°F
MELT FLOW RATE (@190°C / 2.16 kg)	D1238	8.5	g/10 min
DRYING TEMPERATURE	SOP	190	°F
DRYING TIME	SOP	≤ 24	hours
MAX. MOISTURE IN PROCESS	SOP	0.05	%
GENERAL PHYSICAL PROPERTIES		ASTM	
SPECIFIC GRAVITY	D792	1.03	g/cm ³
WATER ABSORPTION	D570		
METHOD A (24 HRS)		n/a	%
MOLD SHRINKAGE LINEAR FLOW	D955		
1/8" SECTION LINEAR FLOW			%
1/8" ACROSS FLOW			in/in
MECHANICAL PROPERTIES			
TENSILE STRENGTH (@ YIELD)	D 882	2800	psi
TENSILE STRENGTH (@ BREAK)	D 882	2000	psi
ELONGATION	D 882	41	%
TENSILE MODULUS		101,000	psi
FLEXURAL STRENGTH	D790	5,400	psi
FLEXURAL MODULUS	D790	200,000	psi
IZOD IMPACT STRENGTH @ 73 °F	D256		
NOTCH 1/8" SPECIMEN		63.45	J/m
HARDNESS	D2240	72.5	SHORE D
THERMAL PROPERTIES			
DEFLECTION TEMPERATURE (under load)	D648		
UNANNEALED @ 264 psi		n/a	°F
UNANNEALED @ 66 psi		n/a	°F
FLAMMABILITY VERTICAL BURN	UL94	n/a	@3.0 mm
ELECTRICAL PROPERTIES			
VOLUME RESISTIVITY	D257	n/a	Ohm-cm
DIELECTRIC STRENGTH	D149	n/a	kV/cm

DATA ARE OBTAINED FROM SPECIMENS MOLDED UNDER CAREFULLY CONTROLLED CONDITIONS FROM REPRESENTATIVES' SAMPLES OF THE COMPOUND DESCRIBED HEREIN. PROPERTIES MAY BE MATERIALLY AFFECTED BY THE MOLDING TECHNIQUES APPLIED AND BY THE SIZE AND SHAPE OF THE ITEM MOLDED. NO ASSURANCE CAN BE IMPLIED THAT ALL MOLDED ARTICLES WILL HAVE THE SAME PROPERTIES AS THOSE LISTED. THIS DATA IS NOT BASED ON THE MINIMUM QUANTITY OF RESULTS REQUIRED TO REPORT AS QUALIFYING SPECIFICATIONS AND MAY BE SUBJECT TO REFINEMENT. DATA HEREIN IS TYPICAL AND NOT TO BE CONSTRUED AS SPECIFICATIONS