

POLYEARTHYLENE
TECHNICAL DATA SHEET



MATERIAL: PEL-FZ-244

DESCRIPTION: This grade of PolyEarthylene is an enhanced biodegradable film grade with over 50% biobased content.

PROCESSING CHARACTERISTICS	METHOD	VALUE	UNIT
PROCESSING TEMPERATURE	SOP	330-360	°F
MELT FLOW RATE (@190 °C / 2.16 kg)	D1238	0.82	g/10 min
DRYING TEMPERATURE	SOP	n/a	°F
DRYING TIME	SOP	≤ 24	hours
MAX. MOISTURE IN PROCESS	SOP	0.05	%
GENERAL PHYSICAL PROPERTIES	ASTM		
SPECIFIC GRAVITY	D792	0.984	g/cm ³
WATER ABSORPTION	D570		
METHOD A (24 HRS)		n/a	%
MOLD SHRINKAGE LINEAR FLOW	D955		
1/8" SECTION LINEAR FLOW		3.51	%
1/8" ACROSS FLOW			in/in
MECHANICAL PROPERTIES			
TENSILE STRENGTH (@ YIELD)	D 882	1600	psi
TENSILE STRENGTH (@ BREAK)	D 882	850	psi
ELONGATION	D 882	872	%
TENSILE MODULUS		19,000	psi
FLEXURAL STRENGTH	D790	1,900	psi
FLEXURAL MODULUS	D790	32,000	psi
IZOD IMPACT STRENGTH @ 73 °F	D256		
NOTCH 1/8" SPECIMEN		360	J/m
HARDNESS	D2240	69	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