



výroba a vývoj obalů – Kartonplast

TECHNICAL DATA SHEET PP – KARTONPLAST® CONDUCTIVE

PHYSICAL PROPERTIES	ISO TEST METHOD	METRIC UNITS	VALUE	ASTM TEST METHOD	U.S. Conventional Units	VALUE
Specific gravity		G/cm ³	0.98			
Density					lb/in ³	0.035
Melt Flow Index	1133			D-1238		
230°C / 2.16 kg		g/10min	0.6			
230°C / 5.0 kg		g/10min	4			
Tensile strength ¹⁾	527	MPa		D-638	psi	
machine direction			25			3600
trans-machine direction			23			3300
Yield strength ¹⁾	527	MPa		D-638	psi	
machine direction			23			3300
trans-machine direction			22			3200
Elongation at break ¹⁾	527	%		D-638		
machine direction			500			
trans-machine direction			480			
Elongation at yield ¹⁾	527	%		D-638		
machine direction			17			
trans-machine direction			16			
Modulus of elasticity ²⁾	178	MPa	1400	D-790	10 ³ psi	200
Impact strength, unnotched Izod ²⁾	180			D-256		
4.0 mm (0.156-in) thickness, 23°C/73°F		J/m	NB		ft-lb/in	NB
4.0 mm (0.156-in) thickness, -20°C/-4°F		J/m	-		ft-lb/in	-
Impact strength, notched Izod ²⁾	180			D-256		
4.0 mm (0.156-in) thickness, 23°C/73°F		J/m	435		ft-lb/in	8.2
4.0 mm (0.156-in) thickness, -20°C/-4°F		J/m	-		ft-lb/in	-
Vicat softening point ²⁾	306/			D-1525		
Rate A	A50	°C	161		°F	300
Rate B	B50	°C			°F	
Deflection temperature ²⁾	75/			D-648		
0.45 MPa (66 psi) - load	Method Bf	°C	94		°F	200
1.8 MPa (264 psi) - load	Method Af	°C			°F	
Volume resistivity ¹⁾	D-257*	Ω cm	<10 ³	D-257	Ω cm	
Surface resistivity ¹⁾	D-257*	Ω	<10 ⁶	D-257	Ω	
Mould shrinkage ²⁾	294-4	%	1.0-1.2	D-955	in/in	0.010-0.012
Hardness Shore A ²⁾	868		99	D-2240		
Shore D ²⁾			74			

¹⁾ test specimen: 400µm (16 mils) thick sheet

²⁾ test specimen: 4.0 mm (0.156 in) thick, 10.0 mm (0.391 in) wide moulded rod