

Pocan[®] C5210

(PET+PC)—I—MX15

15% Mineral Reinforced, Injection Molding, Improved Impact, Excellent Surface Properties, Low Warpage

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Melt volume–flow rate	20	cm ³ /10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.6	%	ISO 294–4
Molding shrinkage (parallel)	0.6	%	ISO 294–4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	3500	MPa	ISO 527–1/–2
Stress at break	45	MPa	ISO 527–1/–2
Strain at break	15	%	ISO 527–1/–2
Flexural modulus	3800	MPa	ISO 178
Flexural strength	85	MPa	ISO 178
Flexural strain at flexural strength	5	%	ISO 178–A
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	7	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	N	kJ/m ²	ISO 180/1U
Izod impact strength (–30°C)	N	kJ/m ²	ISO 180–1U
THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	250	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	105	°C	ISO 75–1/–2

Property Data

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Temp. of deflection under load (0.45 MPa)	125	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.5	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8	E-4/°C	ISO 11359-1/-2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	225	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1300	kg/m³	ISO 1183

PROCESSING RECOMMENDATIONS	VALUE		
Drying temperature circulating air dryer	120	°C	
Drying time circulating air dryer	4-8	h	
Residual moisture content	0.00-0.02	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	260-280	°C	
Mold temperature	80-100	°C	
admissible residence time at Tmax	<10	min	