

Pocan[®] ECOB3233HRLT

PBT—GF30

30% Glass Reinforced, Injection Molding, Hydrolysis resistant, Laser Weldable, Laser Transparent Black, Recycled Content

Sustainability

Mass balanced
Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Molding shrinkage (normal)	0.8	%	ISO 294-4
Molding shrinkage (parallel)	0.3	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	10000	MPa	ISO 527-1/-2
Stress at break	140	MPa	ISO 527-1/-2
Strain at break	2.8	%	ISO 527-1/-2
Flexural modulus	9600	MPa	ISO 178
Flexural strength	230	MPa	ISO 178
Flexural strain at flexural strength	3.2	%	ISO 178-A
Charpy impact strength (+23°C)	60	kJ/m ²	ISO 179/1eU
Izod impact strength (+23°C)	53	kJ/m ²	ISO 180/1U
THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	190	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1	E-4/°C	ISO 11359-1/-2



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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES			
Comparative tracking index	275	V	IEC 60112
OTHER PROPERTIES			
Density	1520	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS			
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	60–80	°C	

