

Pocan[®] B3243HR

PBT—GF45

45% Glass Fiber Reinforced, Injection Molding, Hydrolysis Stabilized

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume—flow rate	30	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.9	%	ISO 294-4
Molding shrinkage (parallel)	0.4	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	14000	MPa	ISO 527-1/-2
Stress at break	135	MPa	ISO 527-1/-2
Strain at break	2.4	%	ISO 527-1/-2
Flexural modulus	13000	MPa	ISO 178
Flexural strength	215	MPa	ISO 178
Flexural strain at flexural strength	2.6	%	ISO 178-A
Charpy impact strength (+23°C)	60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	60	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)	10	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	55	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)	205	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75-1/-2

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Property Data

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Coeff. of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.1	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
	VALUE		
Comparative tracking index	425	V	IEC 60112
OTHER PROPERTIES			
	VALUE		
Density	1610	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)	250-270	°C	
Mold temperature	80-100	°C	

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