Property Data

Envalior
Imagine the Future

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	cm³/10min	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/m²	ISO 179/1eU
Charpy impact strength (–30°C)	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	10	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	55	kJ/m²	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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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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