Property Data

Envalior
Imagine the Future

Pocan® T3150XF

(PBT+PET)–GF55

55% Glass Fiber Reinforced, Injection Molding, High Flow, Low Warpage

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	30	cm³/10min	ISO 1133
Temperature	270	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (normal)	0.8	%	ISO 294–4
Molding shrinkage (parallel)	0.3	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	18500	MPa	ISO 527–1/–2
Stress at break	160	MPa	ISO 527–1/–2
Strain at break	1.5	%	ISO 527–1/–2
Flexural modulus	18000	MPa	ISO 178
Flexural strength	260	MPa	ISO 178
Flexural strain at flexural strength	1.9	%	ISO 178–A
Charpy impact strength (+23°C)	50	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.3	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	9.3	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	45	kJ/m²	ISO 180/1U
Izod impact strength (–30°C)	45	kJ/m²	ISO 180–1U
THERMAL PROPERTIES	**VALUE**		
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	230	°C	ISO 75–1/–2

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Coeff. of linear therm. expansion (parallel)	0.1	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.6	E–4/°C	ISO 11359–1/–2

ELECTRICAL PROPERTIES	VALUE		
Comparative tracking index	425	V	IEC 60112

OTHER PROPERTIES	VALUE		
Density	1770	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	

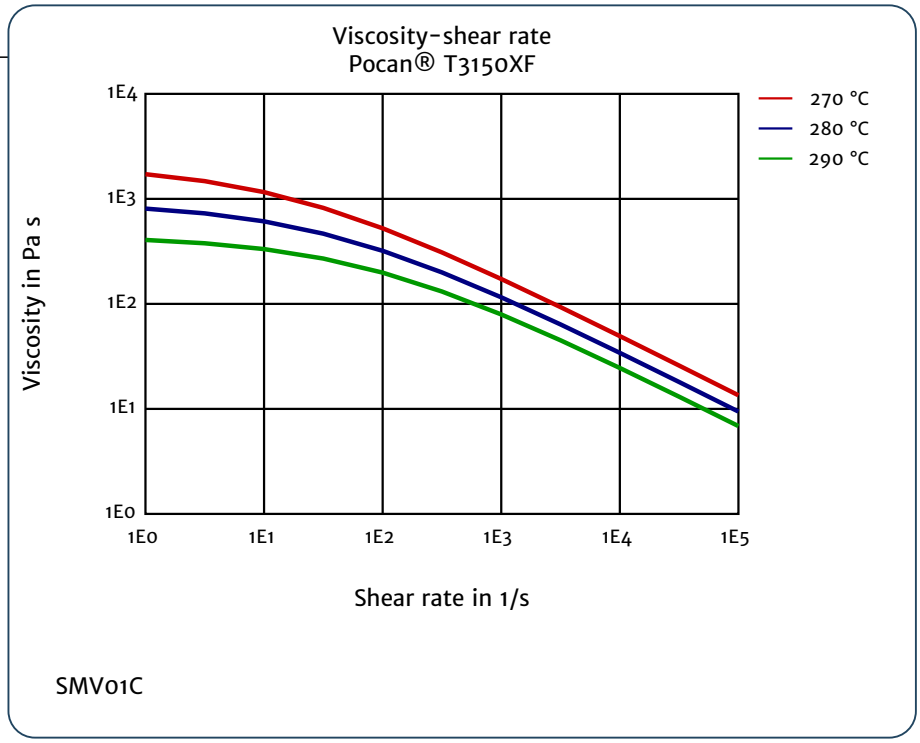
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Viscosity–shear rate



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