

Pocan® T7141 000000
 (PET+PA12)-(GF+MX)40

Envalior

Injection Molding, 40% Glass/Mineral Reinforced, Improved flow

ISO 1043 (PET+PBT)-(GF+MX)40

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	25	cm³/10min	ISO 1133
Temperature	280	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12000	MPa	ISO 527
Stress at Break	125	MPa	ISO 527
Strain at Break	1.6	%	ISO 527
Notched Impact Strength (Charpy), +23°C	10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	260	°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)	250	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	20	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	50	E-6/K	ISO 11359-1/-2

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	225	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1700	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	110	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.02	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	100 - 130	°C	-

Characteristics

Processing	Special Characteristics
Injection Molding	Heat aging stabilized

Delivery form
Pellets

Injection Molding
PREPROCESSING

 Residual moisture content: 0.00 - 0.02 %
 Drying temperature circulating air dryer: 120 °C
 Drying time circulating air dryer: 4 - 8 h

PROCESSING

 Melt temperature (Tmin - Tmax): 270 - 290 °C
 Mold temperature: 100 - 130 °C