

TECACOMP® PP ID blue 3956

Polypropylene
Ensinger GmbH

Message:
Main features
detectable via metal detector
x-ray detectable

General Information			
Features	Metal Detectable		
Appearance	Blue		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	
Apparent Density	0.68	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	39	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	37.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.5	%	ISO 294-4
Flow	1.4	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/50
Tensile Stress	25.0	MPa	ISO 527-2/50
Tensile Strain (Break)	30	%	ISO 527-2/50
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress	43.0	MPa	ISO 178
Flexural Strain	5.0	%	ISO 178
Service Temperature			
long term	100	°C	
short term	130	°C	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-18.0	°C	DIN 53765
Melting Temperature	165	°C	DIN 53765
Flammability	Nominal Value		Test Method
Flammability Classification	HB		IEC 60695-11-10, -20

Injection	Nominal Value	Unit
Drying Temperature	70 - 100	°C
Drying Time	2.0	hr
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	200 - 260	°C
Mold Temperature	40 - 100	°C

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