RamTal PM8103NT-7

POM — Polyram

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**3.5**	g/10min	ISO 1133
Temperature	**190**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**1.9**	%	ISO 294-4, 2577
Molding shrinkage, normal	**2.0**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**1700**	MPa	ISO 527
Tensile Strength	**50**	MPa	ISO 527
Yield strain	**14**	%	ISO 527
Flexural modulus, 23°C	**1600**	MPa	ISO 178
Flexural strength	**58**	MPa	ISO 178
Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**16**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**8**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**14**	kJ/m²	ISO 180/1A
Izod notched impact strength	**11**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
ASTM Data			
Izod Impact notched, 1/8 in	**100**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**77**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**135**	°C	ISO 75-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Burning rate, FMVSS, Thickness 1 mm	**100**	mm/min	ISO 3795 (FMVSS 302)

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.2**	%	Sim. to ISO 62
Density	**1380**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.15**	%	-
Mold temperature	**60 - 90**	°C	-
Feed temperature	**60 - 70**	°C	-
Zone 1	**160 - 180**	°C	-
Zone 2	**180 - 190**	°C	-
Zone 3	**170 - 190**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Natural Color

Special Characteristics
High impact or impact modified

Certifications
RoHS compliant

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa