

PLUSTEK PD1002NT

Polyamide 12
Polyram Ram-On Industries

Message:
Medium viscosity Polyamide 12 extrusion type.

General Information			
Features	Medium Viscosity		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.80 to 0.90	%	ASTM D955
--	0.80 to 0.90	%	ISO 2577
Water Absorption			
Saturation	1.2	%	ASTM D570
Saturation, 23°C	1.2	%	ISO 62
Equilibrium	0.70	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	40.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	70	%	ASTM D638, ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Notched Izod Impact (23°C)	No Break		ASTM D256
Unnotched Izod Impact Strength (23°C)	8.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	130	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ASTM D648, ISO 75-2/A
Maximum Use Temperature ¹	150	°C	
Maximum Continuous Use Temperature	105	°C	
Melting Temperature	175	°C	ISO 11357-3, ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Electric Strength	32	kV/mm	IEC 60250
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
NOTE			
1.	Short Peaks Operation		

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