Quadrant EPP Nylatron® MC® 907

Polyamide 6

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Nylatron® MC® 907 is a Polyamide 6 (Nylon 6) product. It can be processed by casting and is available in North America. Typical application: Food Contact Applications.
Characteristics include:
Flame Rated
Chemical Resistant

General Information			
Features	Hydrocarbon Resistant Machinable		
Agency Ratings	FDA Unspecified Rating		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.15	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.60	%	
Saturation	7.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	85		
R-Scale	115		
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength (Ultimate)	82.7	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength (Yield)	110	MPa	ASTM D790
Compressive Modulus	2760	MPa	ASTM D695
Compressive Strength (10% Strain)	103	MPa	ASTM D695
Shear Strength	75.8	MPa	ASTM D732
Coefficient of Friction (vs. Steel - Static)	0.20		Internal Method
Wear Factor	200	10^-8 mm³/N·m	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	21	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.3	°C	ASTM D648

Maximum Use Temperature - Long Term, Air	93	°C	
Limiting Pressure Velocity [1]	0.105	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	216	°C	ASTM D3418
CLTE - Flow [2] (-40 to 149°C)	9.0E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.25	W/m/K	ASTM F433
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity [3]	> 1.0E+13	ohms	Internal Method
Dielectric Strength [4]	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		
3.	EOS/ESD S11.11		
4.	Method A (Short-Time)		

Recommended distributors for this material

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