

# Megalon® 235ML

Polyamide 6

Mega Polymers

## Message:

Nylon Type-6, with 35% mineral reinforcement for injection molding applications. Megalon® mineral reinforced nylons offer a good balance of strength, rigidity, and significant improvement in thermal and creep resistance Vs. un-filled Type-6 nylon. The mineral additive also reduces warp and maintains uniform dimensional stability.

General Information			
Filler / Reinforcement	Mineral,35% Filler by Weight		
Features	Good Strength		
	Medium Rigidity		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.80 to 1.1	%	
Water Absorption			ASTM D570
24 hr	1.1	%	
Saturation	5.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	89.6	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648, ISO 75-2/A
Peak Melting Temperature	216	°C	ASTM D3418, ISO 3146
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	243 to 260	°C	
Mold Temperature	65.6 to 121	°C	

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