Megalon® 108ST

Polyamide 66

Mega Polymers

Message:

Impact modified, Type-66 nylon for injection molding applications

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.09	g/cm³	ASTM D792
Molding Shrinkage	1.5	%	
Water Absorption			ASTM D570
24 hr	1.2	%	
Saturation	6.7	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, -40°C	80.0	MPa	
Yield, 23°C	51.7	MPa	
Yield, 77°C	40.7	MPa	
Tensile Elongation			ASTM D638
Yield, -40°C	20	%	
Yield, 23°C	40	%	
Yield, 77°C	220	%	
Flexural Modulus			ASTM D790
-40°C	2760	MPa	
23°C	1760	MPa	
77°C	483	MPa	
Flexural Strength (23°C)	67.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C	160	J/m	
23°C	800	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	216	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	71.0	°C	ASTM D648, ISO 75-2/A
Peak Melting Temperature	250 to 260	°C	ASTM D3418, ISO 3146

CLTE - Flow	6.1E-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	288 to 310	°C	
Mold Temperature	65.0 to 120	°C	

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