Chemlon® 212

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 212 is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Chemlon® 212: Flame Rated.

General Information			
UL YellowCard	E90654-252565		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.13	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4 to 1.8	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	79.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	50	%	
Flexural Modulus	2860	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	185	°C	
1.8 MPa, Unannealed	92.2	°C	
Melting Temperature	216	°C	DSC
CLTE - Flow	6.2E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.810 mm	125	°C	
1.50 mm	125	°C	
3.00 mm	125	°C	
RTI Imp			UL 746
0.810 mm	75.0	°C	
1.50 mm	75.0	°C	
3.00 mm	75.0	°C	

RTI Str			UL 746
0.810 mm	110	°C	
1.50 mm	120	°C	
3.00 mm	125	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	14	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.810 mm)	V-2		UL 94
Oxygen Index	25	%	ASTM D2863
Injection	**Nominal Value**	**Unit**	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	218 to 235	°C	
Middle Temperature	229 to 252	°C	
Front Temperature	241 to 260	°C	
Nozzle Temperature	241 to 266	°C	
Processing (Melt) Temp	241 to 266	°C	

Recommended distributors for this material

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