

Chemlon® 212 H

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 212 H is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 212 H are:

Flame Rated

Good Mold Release

Heat Stabilizer

Lubricated

Medium Viscosity

Typical application of Chemlon® 212 H: Automotive

General Information			
UL YellowCard	E90654-252566		
Additive	Heat Stabilizer		
	Lubricant		
Features	General Purpose		
	Good Mold Release		
	Heat Stabilized		
	Lubricated		
	Medium Viscosity		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	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 (23°C)	79.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break, 23°C	50	%	
Flexural Modulus (23°C)	2860	MPa	ASTM D790
Flexural Strength (23°C)	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	
CLTE - Flow	6.2E-5	cm/cm/°C	ASTM D696
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	

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