

# Nylene® 5243 HS

Polyamide 6

Custom Resins Group

Message:

43% glass fiber reinforced, heat stabilized, nylon 6 injection molding resin

Heat and chemical resistance typical of nylon 6 resins, while glass fiber reinforcement provides outstanding strength and stiffness

The nylon 6 base resin also provides excellent surface appearance

Suitable for brackets, supports, enclosures, handles, and any other uses which require high stiffness along with good appearance

General Information			
Filler / Reinforcement	Glass Fiber,43% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Chemical Resistance		
	Good Strength		
	Heat Stabilized		
	High Stiffness		
	Pleasing Surface Appearance		
Uses	Handles		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	179	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.0	%	ASTM D638
Flexural Modulus (23°C)	9650	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
Peak Melting Temperature	216	°C	ASTM D3418

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