

# Nylene® 743HS

Polyamide 6  
Custom Resins Group

Message:

Heat stabilized, high impact modified nylon suitable for both molding and extrusion.  
In addition to heat stabilization to prevent thermal degradation, parts molded from 743HS have excellent R.T. and C.T. impact strength right out of the mold without post conditioning.  
Outstanding features of Nylene 743HS include high strength and high cold temperature impact.  
Cylinder temperatures should be in the 435 - 525°F range.

General Information			
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Good Impact Resistance		
	Heat Stabilized		
	High Strength		
	Impact Modified		
	Low Temperature Impact Resistance		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	53.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	150	%	ASTM D638
Flexural Modulus (23°C)	1590	MPa	ASTM D790
Flexural Strength (23°C)	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	190	J/m	ARM
23°C	910	J/m	
ARM Impact			
-40°C	203	J	ARM
-30°C	203	J	
23°C	203	J	
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	219	°C	ASTM D3418
Injection	Nominal Value	Unit	

Rear Temperature	224 to 274	°C
Middle Temperature	224 to 274	°C
Front Temperature	224 to 274	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	224 to 274	°C
Cylinder Zone 2 Temp.	224 to 274	°C
Cylinder Zone 3 Temp.	224 to 274	°C
Cylinder Zone 4 Temp.	224 to 274	°C
Cylinder Zone 5 Temp.	224 to 274	°C

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#### Recommended distributors for this material

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