



INEOS PP N00M-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

N00M-00 is a fractional melt flow rate, medium term heat aging high impact copolymer polypropylene for blow molding, pipe, tubing and sheet extrusion applications. It offers a superior balance of stiffness and impact strength as compared to competitive impact copolymers of similar melt flow rate. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520. This product is not recommended for taste or odor sensitive applications.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Food Contact Acceptable • High Impact Resistance • Impact Copolymer
Uses	• Blow Molding Applications • Sheet • Piping • Tubing
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Blow Molding • Pipe Extrusion • Sheet Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.904		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	3660	psi	ASTM D638
Tensile Strength ² (Break, Injection Molded)	3350	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	9.6	%	ASTM D638
Tensile Elongation ² (Break, Injection Molded)	480	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	172000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F, Injection Molded	2.3	ft-lb/in	
73°F, Injection Molded	No Break		
Notched Izod Impact (Area) (-4°F)	5.76	ft-lb/in ²	ASTM D256
Instrumented Dart Impact			ASTM D3763
-4°F, Injection Molded, Ductile Failure	No Break		
73°F, Injection Molded, Ductile Failure	No Break		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	77		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	190	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Injection Molded	136	°F	
Brittleness Temperature	-94.0	°F	ASTM D746
Vicat Softening Temperature	304	°F	ASTM D1525

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Thermal	Nominal Value	Unit	Test Method
RTI Elec	120	°F	UL 746
RTI Imp	120	°F	UL 746
RTI Str	120	°F	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Injection Molded)	56		ASTM D2457

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min