INEOS PP N00N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

Tuesday, November 5, 2019

General Information

Product Description

N00N-00 is a fractional melt flow rate high impact copolymer polypropylene specifically designed for non-pressure structured wall pipe but can also be used in other extrusion applications requiring high melt strength and high stiffness. It offers a superior balance of stiffness and impact strength as compared to competitive impact copolymers of similar melt flow rate.

General		
Material Status	• Commercial: Active	
Availability	• North America	
Features	• Good Melt Strength • High Impact Resistance	• High Stiffness • Impact Copolymer
Uses	• Piping	
Agency Ratings	• EC 1907/2006 (REACH)	
RoHS Compliance	• Contact Manufacturer	
Forms	• Pellets	
Processing Method	• Extrusion	• Pipe Extrusion

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	4920	psi	ASTM D638
Tensile Strength [2] (Break)	3800	psi	ASTM D638
Tensile Elongation [2] (Yield)	7.9	%	ASTM D638
Tensile Elongation [2] (Break)	120	%	ASTM D638
Flexural Modulus - 1% Secant	260000	psi	ASTM D790A
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (-4°F)	1.6	ft·lb/in	ASTM D256
Notched Izod Impact (Area)			ASTM D256
-4°F	3.90	ft·lb/in²	
73°F	No Break		
Instrumented Impact, Ductility			ASTM D3763
-4°F	Ductile		
73°F	Ductile		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	98		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	238	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	140	°F	
Vicat Softening Temperature	318	°F	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°)	78		ASTM D2457

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Notes

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

[2] 2.0 in/min

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