

INEOS PP N05G-00

Polypropylene Impact Copolymer

INEOS Olefins & Polymers USA

Message:

N05G-00 is a general purpose, polypropylene impact copolymer designed for injection molding and compounding applications. The grade benefits from a superior balance of stiffness and impact strength as compared to competitive impact copolymers of similar melt flow rate. This material has been recognized by UL for sustained use at 65°C and meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General Information			
UL YellowCard	E31830-230772		
Features	Food Contact Acceptable General Purpose Impact Copolymer		
Uses	Compounding General Purpose		
Agency Ratings	EC 1907/2006 (REACH) FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Compounding Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	23.9	MPa	
Break	14.1	MPa	
Tensile Elongation ²			ASTM D638
Yield	6.6	%	
Break	280	%	
Flexural Modulus - 1% Secant	1230	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-20°C)	80	J/m	ASTM D256

Notched Izod Impact (Area)			ASTM D256
-20°C	7.80		kJ/m ²
23°C	No Break		
Instrumented Impact, Ductility			ASTM D3763
-20°C	Ductile		
23°C	Ductile		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	95.0		°C
1.8 MPa, Unannealed	48.9		°C
Vicat Softening Temperature	149		°C
RTI Elec (1.50 mm)	65.0		°C
RTI Imp (1.50 mm)	65.0		°C
RTI Str (1.50 mm)	65.0		°C
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gloss (60°)	60		ASTM D2457
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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