INEOS NOVA

SMMA – SBC DRY BLEND (NK 55)

PRODUCT DATA SHEET

Product Information

NK55

FEATURES:	APPLICATIONS:
• **Not medical**	• **Injection moulding**

Properties (1)	**S.I. Units**	**Typical Values** (2) **(S.I.)**	**ISO Standard**
Melt Volume Rate 200°C, 5 kg	cm^3/10 min	8.0	1133 H
Melt Flow Rate 200°C, 5 kg	g/10 min	7.9	1133 H
Vicat softening point B/50	° C	75	306 B50
HDT/A 1.8MPa	° C	67	75 -1& -2Af
Charpy Unnotched Impact at 23 °C	kJ/m^2	No break	179/1eU
Charpy Notched Impact at 23 °C	kJ/m^2	4.1	179/1eA
Flexural Modulus	MPa	2000	178
Flexural Strength	MPa	41	178
Tensile Modulus	MPa	2000	527 –1& -2/1A/1
Tensile stress at yield	MPa	28	527 –1& -2/1A/50
Tensile strain at yield	%	3.0	527 –1& -2/1A/50
Tensile stress at break	MPa	25	527 –1& -2/1A/50
Tensile strain at break	%	60	527 –1& -2/1A/50
Density at 23 °C	kg/m^3	1.05	1183
Haze (3)	%	1.6	ASTM D 1003
Moulding shrinkage	%	0.3	294-4

(1) Properties were determined on injection molded specimens at 23°C (73°F) and 50% R.H. unless otherwise specified
(2) Typical Values represent average laboratory values and are intended as guides only, not as specific specification limits.
(3) Data for a 3 mm thick specimen. Haze values will vary with specimen thickness & process conditions.

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TEST METHODS

The product properties designated in this data sheet have been determined in accordance with ISO 294 and ISO 2897.

REGULATORY INFORMATION

On request, we will be happy to provide you with Regulatory Compliance Statements (RCSs) that affirm our products' conformity to various EU Directives, including food contact. Standard RCSs are available for Directives on RoHS (Return of Hazardous Substances), WEEE (Waste Electrical and Electronic Equipment), Packaging Waste et al. We can also provide Declarations confirming the absence of heavy metals and a range of other substances subject to restrictions under EU Marketing and Use Directives, or prohibited under national laws and Company Standards. Please contact us for up to date regulatory information on any of our products.

Food Contact Compliance Statement

Please be informed that Styrenic Copolymer Blend NK grades comply with the following positive lists/approvals for foodcontact materials and articles:
EU (European Union): Directive 2002/72/EC as amended, Annex II (monomers), Section A, and Annex III (incomplete list of additives). All monomers related to above Directive are included in Section A of Annex II.
Styrenic Copolymer Blend NK grades are suitable for contact with **non fatty** foods. It must be pointed out that the responsibility to test the finished product to come in contact with food rests with the manufacturer and food packager.

AVAILABILITY

INEOS NOVA's polystyrene resins are available in bulk road tanker, 25 kg polyethylene bags shrink-wrapped on pallets in units of 1000 kg and upon request 1000 kg big bags.

PROCESSING

Recommended Melt Temp.	190°C – 230°C
Recommended Mould Temp.	10°C – 60°C

Although water absorption of NK 55's components is very low, condensation of dampness may cause striae, streaks or blisters. Condensed water can be removed by drying at 50 - 70 °C.

ENVIRONMENTAL

INEOS NOVA's polystyrene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of INEOS NOVA's polystyrene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. INEOS NOVA's polystyrene grades meet the requirements of EEC Waste Directive 94/62/EC Article 11. Please contact INEOS NOVA Technical Service for further information on recycling and disposal of INEOS NOVA's resins.

Is the SPI resin code developed for polystyrene to identify material type for sorting and recycling purposes.

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