

NAS® ECO 30 B70

SMMA

INEOS Styrolution

100% substitution of fossil source styrene with ISCC certified bio-attributed styrene.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3300	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Strain at Break	2.5	%	ISO 527
Impact Strength (Charpy), +23°C	12	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	1.5	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	3400	MPa	ISO 178
Flexural strength	100	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	2.5	kJ/m²	ISO 180/1A
Impact Strength (Izod), 23°C	12	kJ/m²	ISO 180/1U

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	95 ^[ann.]	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	96 ^[ann.]	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	98	°C	ISO 306

ann.: annealed

Other Properties	Value	Unit	Test Standard
ISO Data			
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1090	kg/m³	ISO 1183

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	0.3	%	ASTM D 1003
Light Transmittance	91.4	%	ASTM D 1003

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2	h	-
Melt temperature	200 - 240	°C	-
Mold temperature	30 - 50	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Transparent, Sterilizable, Ethylene Oxide (EtO) Sterilization,
Gamma irradiation sterilization

Features

High Gloss, Thermal Stability, Copolymer

Chemical Resistance

Radiation Resistance

Certifications

Contains renewable resources, Food approval, ISCC Plus

Applications

Medical, Packaging