

K-Resin® KR53
SB

INEOS Styrolution

K-Resin® KR53 makes a clear, stiff, very tough, high gloss film suitable for applications such as candy twist wrap, shrink sleeves and overwrap.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10	cm ³ /10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-
Melt Flow Index, MFI	10	g/10min	ISO 1133
MFI temperature	200	°C	-
MFI load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	650	MPa	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8	kJ/m ²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50°C/h 50N	40	°C	ISO 306
ASTM Data			
Vicat Temperature	63	°C	ASTM D 1525

Other Properties	Value	Unit	Test Standard
ISO Data			
Humidity absorption	0.07	%	Sim. to ISO 62
Density	1010	kg/m ³	ISO 1183

Film Properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Break, TD	25	MPa	ASTM D 882
Elongation at Yield, MD	20	MPa	ASTM D 882
Type of extrusion	blown	-	-
Thickness of specimen	0.025	mm	-

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Gloss	140	-	ASTM D 2457
Haze	0.2	%	ASTM D 1003

Characteristics**Processing**

Film Extrusion, Blown Film Extrusion

Delivery form

Pellets

Special Characteristics

Transparent

Features

Heat Sealable, High Gloss, Copolymer

Applications

Medical, Packaging

Injection Molding**Disclaimer****Liability Exclusion**

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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- any critical component in any medical device that supports or sustains human life.

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