

K-Resin® SBC KR03NW

Styrene Butadiene Block Copolymer
Chevron Phillips Chemical Company LLC

Message:

KR03NW is the no-wax (NW) form of KR03 to facilitate printing

General Information			
UL YellowCard	E54700-244903		
Features	Copolymer		
	Ethylene Oxide Sterilizable		
	Good Moldability		
	Good Stiffness		
	High Clarity		
	High Gloss		
Uses	Bottles		
	Containers		
	Medical/Healthcare Applications		
	Packaging		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1640		
	USP Class VI		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.5	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.090	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	26.2	MPa	ASTM D638
Tensile Elongation ² (Break)	230	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1800	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.18 mm)	37.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact ⁵ (23°C, 3.18 mm)	40.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	62.2	°C	ASTM D648
Vicat Softening Temperature	85.0	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss ⁶ (60°)	162		ASTM D2457
Transmittance	92.0	%	ASTM D1003
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	13 mm/min		
4.	13 mm/min		
5.	3.81 m/sec		
6.	Mold Temperature: 100°F		

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