

Styrolution Styrolux HS 70 SBC

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene-Butadiene Copolymer, SBC

Material Notes:

Information provided by STYROLUTION, which is a joint venture between BASF and INEOS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Styrolux-HS-70-SBC.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Water Absorption	0.070 %	0.070 %	ISO 62
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23 ^o C/50% R.H.; ISO 62
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 200 ^o C	13 g/10 min @Load 11.0 lb, Temperature 392 ^o F	ASTM Test

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	29.0 MPa	4210 psi	ASTM Data
Film Tensile Strength at Yield, TD	70.0 MPa	10200 psi	ASTM Data
Tensile Strength, Yield	28.3 MPa	4100 psi	2 in/min; ASTM Test
Film Elongation at Yield, MD	400 %	400 %	ASTM Data
Film Elongation at Yield, TD	110 %	110 %	ASTM Data
Elongation at Break	40 %	40 %	2 in/min; ASTM Test
Elongation at Yield	2.0 %	2.0 %	2 in/min; ASTM Test
Tensile Modulus	2.07 GPa	300 ksi	2 in/min; ASTM Test
Flexural Strength	27.0 MPa	3920 psi	ASTM Test
Flexural Modulus	1.39 GPa	202 ksi	ASTM Test
Dart Drop, Total Energy	4.50 J	3.32 ft-lb	ASTM Test

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	55.0 ^o C	131 ^o F	ASTM Test
Vicat Softening Point	72.0 ^o C	162 ^o F	Rate "B" Loading 1 (120 degC/h 10N); ASTM Test

Optical Properties	Metric	English	Comments
Haze	2.0 % @Thickness 3.20 mm	2.0 % @Thickness 0.126 in	ASTM Test
Gloss	140 %	140 %	60° Specular; ASTM Test

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 230 °C	356 - 446 °F	Extrusion

Descriptive Properties	Value	Comments
Color	Clear	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Extrusion	

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