

Supporting Information For

On the Unusual Volume Phase Transition Behavior of Poly(N-isopropylacrylamide) - Poly(2-hydroxyethyl methacrylate) Interpenetrating Polymer Network Microgel: Different Roles in Different Stages

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Table S1. operation details of the sequence order determination during heating process

1600	-	-	-	-	-	-	-	-	+	-	-	-
1625	-	+	+	-	-	-	-	-	+	+	+	
1645	-	-	+	-	-	-	-	-	+	-		
1652	-	+	+	-	-	-	-	-	+			
1699	-	-	-	-	-	-	-	-				
1716	+	+	+	+	+	+						
1733	-	+	+	+	-							
2871	-	+	+	+								
2925	-	+	+									
2946	-	-										
2971	-											
	2985	2971	2946	2925	2871	1733	1716	1699	1652	1645	1625	

Table S2 operation details of the sequence order determination during cooling process

1600	-	-	-	-	-	-	-	-	-	+	-	-	-
1625	+	-	-	-	-	-	-	+	-	+	+	+	
1645	-	-	-	-	-	-	-	+	-	+	+		
1656	-	-	-	-	-	-	-	+	-	+			
1699	-	-	-	-	-	-	-	-	-				
1716	+	+	-	-	+	-	+	+					
1733	-	-	-	-	-	-	-						
2871	+	+	-	-	-	-							
2883	+	+	-	+	+								
2925	+	+	-	-									
2935	+	+	-										
2946	+	+											
2967	+												
	2985	2967	2946	2935	2925	2883	2871	1733	1716	1699	1658	1645	1625