

## Developmental Styrenic Block Copolymer

### DP4118ND

#### Styrene-Isoprene SIS/SI Block Copolymer

- Linear triblock (SIS)/Diblock (SI) block co-polymer
- Contains ~75% SI diblock copolymer
- Very low styrene content.
- Designed for hot melt label applications.

DP4118ND styrenic block copolymer is a linear triblock/diblock copolymer with a narrow molecular weight distribution. It has been found to be useful for hot melt pressure sensitive label applications requiring adhesion to low energy surfaces, low migration, and excellent die-cutting characteristics.

- DP4118ND SIS/SI is offered as a dense pellet supplied from China.

Polymer Properties	Test Method	Unit	Typical Value <sup>(1)</sup>
Specific Gravity	ASTM D792	-	0.93
Hardness <sup>(2)</sup>	ASTM D2240	Shore A	22
Tensile at Break <sup>(3)</sup>	ISO 37	MPa	0.98
Stress at 300% Elongation <sup>(3)</sup>	ISO 37	MPa	0.26
Elongation at Break <sup>(3)</sup>	ISO 37	%	1475
Solution Viscosity <sup>(4)</sup>	ASTM D2196	cP	1562

Sales Specification	Test Method	Unit	Range	
			Min	Max
Styrene	TSRC Method	wt%	8.5	11.5
Diblock Content	TSRC Method	wt%	70	80
Volatile Matter	TSRC Method	wt%	0.0	0.5
Ash	ASTM D5630	wt%	0.1	0.3
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	7.5	15.5

- 1) Typical values intended only as guides and should not to be construed as specifications  
 2) Dwell time - 1 second  
 3) Roll-milled, compression-molded plaques  
 4) 25 wt% in Toluene; 25°C