



# DAN Polymer

Technical Data Sheet

**PS Compound:** DANCMP 1051



DAN  
POLYMER

www.danpolymer.com  
Rev 01, May 2024

## Description:

DANCMP 1051 is a medium molecular weight polystyrene .it has good melt strength polystyrene for sheet and foam extrusion applications. It offers optimum mechanical strength and excellent thermal properties for food trays and suitable for profile.

## Advantages:

Good processability  
Good mechanical properties

## Characteristics:

Appearance: Granular  
Color: White  
Carrier PS  
Processing Method: Suitable for Extrusion

## Application:

Food trays and suitable for profile, extrusion and embossed sheets

## Properties:

Parameters	Value	Unit	Test Method
<b>Physical</b>			
Melt Flow Index (200°C, 5 kg)	4 ± 1	g/10 min	ASTM D 1238
Density	1.02 ± 0.02	gr/cm <sup>3</sup>	ASTM D 1505
Ash Content	0.5 ± 0.5	%	ASTM D 5630
<b>Mechanical</b>			
Tensile Strength @Peak	50 ± 2	MPa	ASTM D 638
Notched Izod Impact(23°C)	3 ± 2	KJ/m <sup>2</sup>	ISO 180

\*Test Condition: Samples were prepared by injection molding machine (100 Ton).



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## Processing Conditions:

### Injection Molding:

Rear Temp (°C)	Center Temp (°C)	Center Temp (°C)	Front Temp (°C)	Nozzle Temp (°C)
190-200	190-200	200-210	200-210	210-220
Melt Temp (°C)	Mold Temp (°C)	Filling Speed		
220	60-80	Slow-Mid		



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