



Topolymer® 8209-451N

Styrenic Thermoplastic Elastomer

Product Description

Topolymer® 8209-451N is a TPE compound based on Styrenic Block Copolymer (SBC). This material can be over-molded onto PC/ABS/PC+ABS or used for single molding. This grade is designed for injection molding. It is completely recyclable.

General

Appearance	√Natural Color		
Feature	√Soft Touch	√Easy Coloring	√Tear Resistance
Compliance	√RoHS	√REACH	√FDA
Form	√Pellet		
Packaging	√25kg/bag		

Technical Property

Typical Properties	Typical Value	Unit	Test Method
Hardness	53	Shore A	ASTM D2240
Density	1.03	g/cm ³	ASTM D792
Tensile Strength at break	8.9	MPa	ASTM D412
Tensile Strength at 100%	1.8	MPa	ASTM D412
Elongation at Break	680	%	ASTM D412
Tear Strength	34	KN/m	ASTM D624
Compression Set at 23°C x 22hr	23	%	ASTM D395B

The data are not to be defined as specifications.

Processing Information

Injection	Typical Value
Rear Temperature	160-190°C
Middle Temperature	170-200°C
Front Temperature	180-220°C
Nozzle Temperature	190-230°C
Mold Temperature	25-60°C
Injection Rate	Fast/Medium
Back Pressure	0.35-0.7MPa
Screw Speed	30-80rpm
Screw L/D Ratio	22:1
Screw Compression Ratio	2:1-4:1

Notes:

- 1) The product is incompatible with PVC. Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) Polyethylene (PE) or Polypropylene (PP).
- 2) Color concentrate with PP, LDPE or EVA based carrier is recommended.
- 3) The product needs to be dry before use, dry pellets for 3 hours at 90°C.

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