

AuroraFlex™ 8175N

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

AuroraFlex™ 8175N is a colorable thermoplastic elastomer formulated for applications that require rubber like properties. 8175N can be over molded to polypropylene.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Good Colorability		
Uses	• Overmolding		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.12		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.5	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	595	psi	ASTM D412
Tensile Strength	1000	psi	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	75		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	330 to 380	°F
Front Temperature	360 to 390	°F
Nozzle Temperature	370 to 400	°F
Mold Temperature	70 to 100	°F
Injection Rate	Fast	
Back Pressure	50.0 to 100	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

