

AuroraFlex™ 9050

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

9050 is a natural thermoplastic elastomer formulated for applications that require high impact resistance and a good surface finish. 9050 is well suited for consumer goods and industrial applications requiring U.V. stability. 9050 can be overmolded to polypropylene.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• Good Surface Finish	• High Impact Resistance	• UV Stabilized
Uses	• Consumer Applications	• Industrial Applications	• Overmolding
Appearance	• Natural Color		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1260	psi	ASTM D412
Tensile Strength	1930	psi	ASTM D412
Tensile Elongation (Break)	520	%	ASTM D412
Tear Strength	428	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	45		ASTM D2240

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	351 to 379	°F
Front Temperature	360 to 390	°F
Nozzle Temperature	370 to 399	°F
Mold Temperature	70 to 100	°F
Injection Rate	Moderate-Fast	
Back Pressure	99.9 to 200	psi
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	

