

NOTIO™ PN-0040

Mitsui Chemicals America, Inc. - *Thermoplastic Elastomer*

General Information

Product Description

NOTIO™ is a flexible, low density, transparent elastomer with excellent heat resistance. The resin is not cross- linked and demonstrates superior elasticity. NOTIO's crystalline and amorphous structure (morphology) is controlled at the nano scale, allowing for the realization of properties that cannot be achieved with conventional elastomers.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Amorphous	• Good Flexibility	• High Heat Resistance
	• Crystalline	• High Elasticity	• Low Density
Uses	• Adhesives	• Film	• Plastics Modification
	• Automotive Applications	• Packaging	
Appearance	• Clear/Transparent		
Forms	• Pellets		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.868	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	6090	psi	Internal Method
Tensile Strength ² (Break)	3190	psi	Internal Method
Tensile Elongation ² (Break)	750	%	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Set ³ (150% Strain)	16	%	Internal Method
Compression Set ⁴			Internal Method
73°F, 24 hr	25	%	
158°F, 24 hr	75	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-18.4	°F	ASTM D746
Glass Transition Temperature	212	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Haze (78.74 mil, Compression Molded)	5.00	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² JIS K7113-2

³ JIS K7113-2, 0.3 mm

⁴ JIS K7113-2, 12 mm, 25% compression

