NOTIO™ PN-3560

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 • Crystalline	• Good Flexibility • High Elasticity	• High Heat Resistance • Low Density
Uses	• Adhesives • Automotive Applications	• Film • Packaging	• Plastics Modification
Appearance	• Clear/Transparent		
Forms	• Pellets		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.866	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2]	1740	psi	Internal Method
Tensile Strength [2] (Break)	1740	psi	Internal Method
Tensile Elongation [2] (Break)	> 800	%	Internal Method
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Set [3] (150% Strain)	12	%	Internal Method
Compression Set [4]			Internal Method
73°F, 24 hr	20	%	
158°F, 24 hr	60	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	70		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-18.4	°F	ASTM D746
Glass Transition Temperature	275	°F	Internal Method
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze (78.74 mil, Compression Molded)	6.00	%	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