



PELLETHANE* 2103-90A

Thermoplastic Polyurethane Elastomer

- Low compression set

Properties	Test Method	Values ⁽¹⁾
Physical		
Specific Gravity	ASTM D 792	1.14
Mould Shrinkage (1,6 mm [1/16"] thick plaques), %		
MD		0.7-0.8
TD		0.7-0.8
Mechanical		
Durometer Hardness, Shore A (+/-4)	ASTM D 2240	92A
Tensile Modulus at	ASTM D 412	
50% elongation, MPa (psi)		7.6 (1100)
100% elongation, MPa (psi)		11.2 (1630)
300% elongation, MPa (psi)		24.8 (3600)
Ultimate Tensile Strength, MPa (psi)	ASTM D 412	44.8 (6500)
Ultimate Elongation, %	ASTM D 412	450
Elongation Set After Break, %	ASTM D 412	30
Tear Strength, Die "C", KN/m (pli)	ASTM D 624	133 (760)
Compression Set	ASTM D 395	
22 hours at 25 °C (77 °F), %	Method B	25
22 hours at 70 °C (158 °F), %		28
Taber Abrasion Resistance	ASTM D 1044	
1000 g, 1000 cycles; H-22 wheel (coarser), mg		10
Flexural Modulus, MPa (psi)	ASTM D 790	75.8 (11,000)
Thermal		
Vicat Softening Temperature, °C (°F)	ASTM D 1525	107 (224)
Coefficient of Linear Thermal Expansion, 10 ⁻⁶ mm/mm/°C	ASTM D 696	152 (84,3 10 ⁻⁶ in/in/°F)
Glass Transition Temperature, °C (°F)	DSC	-25 (-13)
Rheological		
Melt Index, 224 °C, 2160 g, g/10 min	ASTM D 1238	23
Processing Information		
Recommended Drying Temperature, °C (°F)		90-105 (190-220)
Recommended Melt Temperature (Moulding), °C (°F)		205-220 (400-430)
Recommended Melt Temperature (Extrusion), °C (°F)		-
Recommended Mould Temperature, °C (°F)		15-60 (60-140)

(1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.

