

NEOPLAST 155 FT SWB

Thermoplastic Vulcanizate

Zylog Plastalloys

Message:

Neoplast 155 FT SWB is a soft, dynamically vulcanized thermoplastic vulcanizate (TPV), based on polyolefin chemistry, and is intended for Injection Moulding and Extrusion applications.

Key Features:

Passes cytotoxicity requirement for use in medical applications

General Information			
Features	Non-Toxic		
	Soft		
Uses	Medical/Healthcare Applications		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec, 23°C)	58		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	3.43	MPa	ASTM D412
Tensile Strength ² (Break)	4.90	MPa	ASTM D412
Tensile Elongation ³ (Break)	250	%	ASTM D412
Tear Strength ⁴	21.6	kN/m	ASTM D624
Compression Set (70°C, 22 hr)	32	%	ASTM D395B
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	12	%	ASTM D573
Change in Ultimate Elongation in Air (150°C, 168 hr)	-15	%	ASTM D573
Change in Durometer Hardness in Air (150°C, 168 hr)	2.0		ASTM D573
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	125	°C	SAE J2236
Brittleness Temperature	-60.0	°C	ASTM D746
NOTE			
1.	500 mm/min		
2.	500 mm/min		
3.	500 mm/min		
4.	500 mm/min		

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