Sunday, September 20, 2026

MHCompounds Wire & Cable
TPE 5280

Units SI

M. Holland Company -
Thermoplastic Elastomer

Action **Legend (Open)**

General Information

Product Description

TPE 5280 is a natural, olefin-based thermoplastic elastomer (TPE) intended for flexible cable, welding cable and general purpose cable jacketing. This dynamically crosslinked compound offers a low-modulus and excellent low temperature flexibility. TPE 5280 exhibits good extrusion processing characteristics on either conventional polyethylene or PVC extrusion lines.

TPE 5280 is readily pigmented to a variety of colors using standard wire and cable color concentrates designed for thermoplastic or crosslinked polyolefins. UV weather resistance is obtainable by the addition of a suitable carbon black or UV additive.

Application
TPE 5280 is intended for low voltage flexible cable and welding cable jacketing usage.

General		
Material Status	• Commercial: Active	
Availability	• North America	
Features	• Crosslinkable	• Low Temperature Flexibility
Uses	• Cable Jacketing	
Appearance	• Natural Color	
Processing Method	• Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890	g/cm³	ASTM D792
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (0.762 mm)	15.2	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	600	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 0.762 mm	80		
Shore D, 0.762 mm	35		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -45.6	°C	ASTM D746
Heat Deformation (150°C, 762.0 µm)	< 30	%	UL 1581
Aging	**Nominal Value**	**Unit**	**Test Method**
Retention of Tensile Elongation - 7 days at 136°C (762.0 µm)	> 95	%	UL 1581
Retention of Tensile Strength - 7 days at 136°C (762.0 µm)	> 95	%	UL 1581
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (1.91 mm)	26	kV/mm	ASTM D149
Dielectric Constant (1.91 mm, 60 Hz)	2.20		ASTM D150

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	188	°C
Cylinder Zone 2 Temp.	199	°C
Cylinder Zone 3 Temp.	204	°C
Cylinder Zone 4 Temp.	210	°C
Melt Temperature	210	°C
Die Temperature	210 to 232	°C

Notes

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

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