Sunday, September 20, 2026

MHCompounds Wire & Cable
TPE 5280

Units English

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	0.892		ASTM D792
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (0.0300 in)	2200	psi	ASTM D412
Tensile Elongation (Break, 0.0300 in)	600	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 0.0300 in	80		
Shore D, 0.0300 in	35		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -50.0	°F	ASTM D746
Heat Deformation (302°F, 30.0 mil)	< 30	%	UL 1581
Aging	**Nominal Value**	**Unit**	**Test Method**
Retention of Tensile Elongation - 7 days at 136°C (30.0 mil)	> 95	%	UL 1581
Retention of Tensile Strength - 7 days at 136°C (30.0 mil)	> 95	%	UL 1581
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (0.0750 in)	650	V/mil	ASTM D149
Dielectric Constant (0.0750 in, 60 Hz)	2.20		ASTM D150

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	370	°F
Cylinder Zone 2 Temp.	390	°F
Cylinder Zone 3 Temp.	400	°F
Cylinder Zone 4 Temp.	410	°F
Melt Temperature	410	°F
Die Temperature	410 to 450	°F

Notes

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

Corporate Offices: 400 Skokie Boulevard, Suite 600
Northbrook, IL 60062
800.872.7370

In Illinois: 847.272.7370
Customer Service FAX: 847.272.7713

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