

Mytex Polymers AS172LW-01US Thermoplastic Polyolefin, Compounded

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Polyolefin

Material Notes:

AS172LW-01US is a compounded thermoplastic polyolefin (TPO) designed for exterior automotive applications requiring cold temperature impact, processability and paintability. Available in natural, generic black or pre-colored for partial paint applications. Key Applications: Exterior Parts-Bumper Fascia, Cladding OEM Approvals: General Motors GMW 15188, GMP E/P 157 Information provided by Mytex Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mytex-Polymers-AS172LW-01US-Thermoplastic-Polyolefin-Compounded.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183 A
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	48 hours after molding; ISO 294-3/4
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	48 hours after molding; ISO 294-3/4
	@Temperature 80.0 °C, Time 3600 sec	@Temperature 176 °F, Time 1.00 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	48 hours after molding; ISO 294-3/4
	@Temperature 121 °C, Time 3600 sec	@Temperature 250 °F, Time 1.00 hour	
Melt Flow	22 g/10 min	22 g/10 min	ISO 1133 B
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
Ash	19 %	19 %	ISO 3451/1A
	@Temperature 950 °C	@Temperature 1740 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.0 MPa	2470 psi	ISO 527-1/1A/50
Flexural Modulus	1.713 GPa	248.5 ksi	Chord, 2mm/min; ISO 178
Izod Impact, Unnotched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	ISO 180/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	Method A, flatwise, unannealed; ISO 75-1/2

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