

**Solvay Engineered Polymers DEXFLEX® 810HS TPO (discontinued \*\*)**

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

**Material Notes:**

Description: DEXFLEX® 810HS is a thermoplastic olefinic elastomer (TPO) that offers excellent weatherability, paintability and processability. This material is designed to exceed the requirements of US 5-mph bumper-impact regulations. Applications: Bumper fascias

Information provided by Solvay Engineered Polymers. LyondellBasell acquired Solvay Engineered Polymers in 2008. This grade is not part of the current LyondellBasell product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Engineered-Polymers-DEXFLEX-810HS-TPO-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Engineered-Polymers-DEXFLEX-810HS-TPO-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ISO 1183
Linear Mold Shrinkage	0.012 - 0.015 cm/cm	0.012 - 0.015 in/in	as molded; ISO 294
	0.015 - 0.018 cm/cm	0.015 - 0.018 in/in	after bake; ISO 294
Melt Flow	14 g/10 min	14 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.0 MPa	2760 psi	150x10x4 mm specimen, 50 mm/min; ISO 527-1/527-2
Flexural Modulus	0.800 GPa	116 ksi	80x10x4 mm specimen, 2 mm/min; ISO 178
Impact Test	21.0 J	15.5 ft-lb	multiaxial, 2.2 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	100 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E228
	@Temperature -30.0 - 80.0 $^\circ\text{C}$	@Temperature -22.0 - 176 $^\circ\text{F}$	

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