Monday, October 12, 2026

DIOFLEX® F85

Alliance Polymers & Services - *Thermoplastic Elastomer*

Units English

Action **Legend (Open)**

General Information

Product Description

- Conforming to U.S. EN-71?TSCA and the EU REACH - SVHC specifications..
- Easy of coloring?100% recyclable and good processing characteristics.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Colorability	• Good Processability	• Recyclable Material
Agency Ratings	• EC 1907/2006 (REACH) - SVHC Free	• EN 71-3	• EPA TSCA
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		JIS K7112
Density	1.24	g/cm³	JIS K7112
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.010	in/in	ASTM D955
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	540	psi	ASTM D412
Tensile Stress (300% Strain)	199	psi	ASTM D412
Tensile Strength	853	psi	ASTM D412
Tensile Elongation (Break)	790	%	ASTM D412
Tear Strength	248	lbf/in	ASTM D624
Compression Set (73°F, 22 hr)	29	%	ASTM D395
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	85		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	212	°F	ASTM D648
Brittleness Temperature	-49.0	°F	ASTM D746
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [2] (122°F, 24 hr)	98	%	ASTM D573
Change in Tensile Elongation at Break in Air [2] (122°F, 24 hr)	100	%	ASTM D573
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	338 to 356	°F
Middle Temperature	347 to 365	°F
Front Temperature	365 to 383	°F
Nozzle Temperature	383 to 428	°F
Mold Temperature	50 to 131	°F
Back Pressure	14.5 to 145	psi
Screw Speed	100 to 200	rpm

Notes

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

[2] Retained

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