

RTP 2800 D-45A

Thermoplastic Polyolefin Elastomer

RTP Company

Message:

"Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade."

General Information			
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	3.1 to 3.5	%	ASTM D955
Moisture Content	< 0.040	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
50% Strain, 3.18 mm	1.14	MPa	
100% Strain, 3.18 mm	1.59	MPa	
300% Strain, 3.18 mm	3.14	MPa	
Tensile Strength ² (Yield, 3.20 mm)	4.48	MPa	ASTM D412
Tensile Elongation ³ (Break)	800	%	ASTM D412
Tear Strength ⁴	26.3	kN/m	ASTM D624
Compression Set ⁵			ASTM D395B
23°C, 22 hr	15	%	
70°C, 22 hr	36	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (125°C, 168 hr)	-0.80	%	ASTM D573
Change in Ultimate Elongation in Air (125°C, 168 hr)	-50	%	ASTM D573
Change in Durometer Hardness in Air (125°C, 168 hr)	-1.0		ASTM D573
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	3.0 to 4.0	hr	
Dew Point	-17.8	°C	

Processing (Melt) Temp	193 to 227	°C
Mold Temperature	10.0 to 79.4	°C
Injection Pressure	68.9 to 103	MPa

NOTE

- | | |
|----|-------------------|
| 1. | Die C, 510 mm/min |
| 2. | Die C, 500 mm/min |
| 3. | Die C, 500 mm/min |
| 4. | Die C |
| 5. | Type 2 |

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Recommended distributors for this material

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