

# UPES® 090-FLR

Polystyrene + PE

NOVA Chemicals

## Message:

UPES® 090-FLR is a Polystyrene + PE (PS+PE) material. It is available in North America.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978	g/cm <sup>3</sup>	ASTM D6226
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.080	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (Injection Molded)	647	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break, Injection Molded)	17.9	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, Injection Molded)	45	%	ASTM D638
Flexural Modulus (Injection Molded)	543	MPa	ASTM D790
Flexural Strength <sup>4</sup> (Yield, Injection Molded)	18.6	MPa	ASTM D790
Flexural Strain - Yield <sup>5</sup>	> 5.1	%	ASTM D790
Shrink Ratio	< 1.00		ASTM D955
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.5	°C	ASTM D1525 <sup>6</sup>
NOTE			
1.	5.1 mm/min		
2.	5.1 mm/min		
3.	5.1 mm/min		
4.	1.3 mm/min		
5.	0.05 in/min, Injection Molded		
6.	Rate B (120°C/h), Loading 1 (10 N)		

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## Recommended distributors for this material

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