

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-13 15:43:49

Date of Next Testing: 2027-10-03 15:43:49

Product Name: **Polystyrene**

CAS Number: 9003-53-6

Specifications & Purity: impact resistive

Lot #: I2525742

SKU # **P107088**

Version **2**

Analysis #: **531753**

| Parameter                                    | Limit Values | Result       |
|----------------------------------------------|--------------|--------------|
| Tensile Strength(50 mm/min)                  | 30 MPa       | 30 MPa       |
| Specific elongation(50 mm/min)               | 50%          | 50%          |
| Flexural Strength(2mm/min)                   | 39MPa        | 39MPa        |
| Flexural Modulus(2 mm/min)                   | 1.5GPa       | 1.5GPa       |
| Izod Impact Strength(4mm/23°C)               | 10 kJ/m2     | 10 kJ/m2     |
| Charpy Impact Strength(4mm/23°C)             | 9 kJ/m2      | 9 kJ/m2      |
| Melt Flow Index(200°C,5kg)                   | 3.8cm3/10min | 3.8cm3/10min |
| Specific Gravity(23°C)                       | 1.05 g/cm3   | 1.05 g/cm3   |
| Softening Temperature(10N,50°C/hr)           | 92 °C        | 92 °C        |
| Heat Distortion Temperature(1.8MPa annealed) | 96°C         | 96°C         |
| Combustion rate                              | 1.5mm HB     | 1.5mm HB     |



John Su  
QA & QC Manager