

Monprene® IN-22958D (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene IN-22958D XRD1 is a high performance thermoplastic elastomer designed specifically for demanding industrial applications including slip coats. Monprene IN-22958D is a high hardness, low density, UV stabilized, unfilled grade with a low coefficient of friction that can be processed by extrusion, co-extrusion and thin extrusion coating.

| General Information | |
|---------------------|------------------------|
| Features | Low Specific Gravity |
| | Without Fillers |
| | Low density |
| | High smoothness |
| | Light stabilization |
| | Good UV resistance |
| | Good adhesion |
| | Medium liquidity |
| | Lubrication |
| | High hardness |
| Uses | Thin coating |
| | Washer |
| | Industrial application |
| | Pipe fittings |
| | Rubber substitution |
| | Profile |
| RoHS Compliance | RoHS compliance |
| Appearance | Natural color |
| Forms | Particle |
| Processing Method | Co-extrusion molding |
| | Extrusion |
| | Coating |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity | 0.888 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shaw D, 1 sec | 56 | | ASTM D2240 |

| Shaw D, 5 seconds | 53 | | ASTM D2240 |
|---------------------------------|---------------|------|-------------|
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ | | | ASTM D412 |
| Transverse flow: 100% strain | 10.2 | MPa | ASTM D412 |
| Flow: 100% strain | 12.8 | MPa | ASTM D412 |
| Transverse flow: 300% strain | 10.7 | MPa | ASTM D412 |
| Flow: 300% strain | 13.1 | MPa | ASTM D412 |
| Tensile Strength ² | | | ASTM D412 |
| Transverse flow: Fracture | 12.2 | MPa | ASTM D412 |
| Flow: Fracture | 14.8 | MPa | ASTM D412 |
| Tensile Elongation ³ | | | ASTM D412 |
| Transverse flow: Fracture | 350 | % | ASTM D412 |
| Flow: Fracture | 660 | % | ASTM D412 |
| Tear Strength ⁴ | | | ASTM D624 |
| Transverse flow | 81.3 | kN/m | ASTM D624 |
| Flow | 153 | kN/m | ASTM D624 |
| Compression Set ⁵ | | | ASTM D395B |
| 23°C, 22 hr | 26 | % | ASTM D395B |
| 70°C, 22 hr | 57 | % | ASTM D395B |
| Legal statement | | | |

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Cylinder Zone 1 Temp. | 204 - 227 | °C |
| Cylinder Zone 2 Temp. | 204 - 227 | °C |
| Cylinder Zone 3 Temp. | 204 - 227 | °C |
| Cylinder Zone 4 Temp. | 204 - 227 | °C |
| Cylinder Zone 5 Temp. | 204 - 227 | °C |
| Die Temperature | 204 - 227 | °C |

Extrusion instructions

Screw Speed: 30 to 100 rpm;Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

| NOTE | |
|------|-------------------|
| 1. | C mold, 510mm/min |
| 2. | C mold, 510mm/min |
| 3. | C mold, 510mm/min |
| 4. | C mold, 510mm/min |
| 5. | Type 1 |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

