

## Technical Data Sheet - 3935 KPCS

**Product description:** **3935 KPCS** is a hexene co-polymer LLDPE developed for the rotational moulding process. 3935 KPCS can be supplied as UV stabilised or Non-UV stabilised colour compounds.

**Application:** Large water tanks  
Large roto moulding products requiring high stiffness  
Sanitation tanks & Agriculture products

**Characteristics:** High Stiffness & Impact Strength  
High Rigidity  
Excellent ESCR  
Good Chemical Resistance

**Product Specification:**

| Product Specification      | Test Method | Test Unit         | Value |
|----------------------------|-------------|-------------------|-------|
| MFI (190°C @ 2.16kg)       | ASTM D1238  | g/10min           | 3.5   |
| Density at 23°C            | ASTM D1505  | g/cm <sup>3</sup> | 0.939 |
| Tensile strength @ Yield   | ASTM D638   | MPa               | 19    |
| Elongation @ Break         | ASTM D638   | %                 | 850   |
| Fexurak Modulus            | ASTM D790A  | MPa               | 800   |
| Impact Energy at -40°C     | ASTM D5628  | J/mm              | 30    |
| ESCR (F50, 10% Igepal v/v) | ASTM D1693  | Hours             | >1000 |
| Vicat Softening Poin (10N) | ASTM D1525  | °C                | 121   |

**Powder Physical Properties:**

| Product Specification | Test Method   | Test Unit         | Value |
|-----------------------|---------------|-------------------|-------|
| Dry-Flow              | ASTM D1895-96 | Sec.              | <30   |
| Bulk Density          | ASTM D1895    | g/cm <sup>3</sup> | >0.33 |
| Average Particle Size | ASTM 1921     | microns           | <425  |

**Regulatory Requirements:**

3935 KPCS in its natural, un-coloured state, comply with the FDA: CFR Title 21,177.1520, Olefin Polymers. Regulatory info for specific colour compounds produced may differ, please contact our Technical department for specific regulatory info.

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